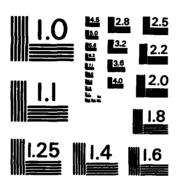
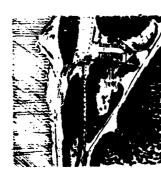
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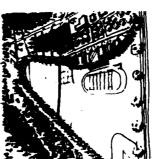
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1. REPORT NUMBER 2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
A. TITLE (and Sublitio)	S. TYPE OF REPORT & PERIOD COVERED
Fort Lewis design theme study	Final
	6. PERFORMING ORG. REPORT NUMBER
7. Autном(a) Dennis M. RYAN, Jeffrey Luth, Timothy Wilson, Janice Woodcock	B. CONTRACT OR GRANT NUMBER(s) DACA67-83-M-0266
9. PERFORMING ORGANIZATION NAME AND ADDRESS University of Washington, Urban Design Program	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS COSTFICE District	12. REPORT DATE
U.S. Army Corps of Engineers P.O. Rox C-3755. Searche, WA 98124	13. NUMBER OF PAGES
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	15e. DECLASSIFICATION/DOWNGRADING SCHEDULE
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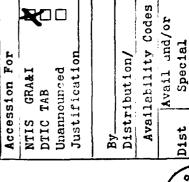
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August 1984

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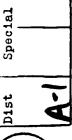




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INTRODUCTION

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Statement of Purpose

This report is the final product of a nine-month study undertaken in response to the directive issued by the Department of the Army that all permanent Army installations take steps to establish a sultable architectural character wherever feasible and practical, utilizing good master planning and principles of design. To carry out that directive, the Seattle District Corps of Engineers contracted the University of Washington's Urban Design Program to investigate the possibility of developing and implementing a design theme for Fortlewis.

the two-phase study was presented to dentified both natural and man-made recommendation for the fort's Design report presented an analysis of the pleasing and functional environment that currently exist in the fort's could be used to create a visually In January 1984 the first phase of officials. The purpose of Phase 1 present character and heritage of Fort Lewis and identified issues Theme. To accomplish this, the the Corps of Engineers and fort features, suggesting ways these Finally, the preliminary report planning and development. It was to develop a preliminary

recommended that the fort adopt the Military Park Theme based on the early cultural and military values expressed in the historic Garrison Area.

After a review of this document and recommendation, fort officials approved the Military Park Theme for Fort Lewis. The Corps of Engineers subsequently directed the University to develop more detailed recommendations and guidelines for the theme.

The primary objectives of the second phase of the work have been to develop a means for implementing the Military Park Theme and to create guidelines both for existing and new developments. This work is based on conclusions drawn from the preliminary report and from working with fort officials and the Corps of Engineers.

As part of the Phase II work, the University has developed design guidelines for the new Jackson Avenue Troop Complex Facility. The examination of this complex, soon to constructed along Jackson Avenue, has provided a unique opportunity to actually test guidelines of the Military Park Theme on a new troop

facility. These guidelines have been useful to the consultants designing the facility and have assisted the fort planners in directing the design and site plan of the complex.

XIII.

Organization of Report

This report is presented in four parts. Part i provides a summary of the Military Park Theme's concepts. It includes a definition of the goals, design objectives, and design policy statements necessary for achieving a fortwide theme.

Part 2 contains a set of general guidelines aimed at a fortwide application. Presently, there is no clear intent or consistency in design approach for the fort's built and unbuilt areas and circulation system. These fortwide design guidelines work to establish over time a more unified and aesthetically pleasing image.

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Pert 3 presents an analysis of current planning procedures and the primary actor's roles in planning at the fort. Based on this analysis a strategy for incorporating the theme into the Master Plan is outlined. A set of actions is outlined to ensure the successful integration of the Design Theme into the fort's planning process.

Part 4 outlines detailed design guidelines for new developments which are planned for the near future. Also included are

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guidelines for improving the main sntry point to the fort.

The appendix contains a summary of background information about the fort's evolution and development, it's mission, culture, and the physical setting. This information served as the rationale for the initial development of the Military Park Theme and is included to further assist in understanding the final recommendations.

Who Will Use This Report?

bolicies for the Military Park Theme can be in the future. When adopted, goals, design objectives, and design directives dealing with the fort as the directives will foster the use be adopted as the fort's principle of design at Fort Lewis to reflect ong-term physical development, as dedication to military service. It It exists today as well as how It is of primary importance that the important ideas about Army life, as the day-to-day decisions philosophy of development. The that affect the appearance and such as discipline, order and This report contains a set of theme can be used to decide functioning of the fort.

To be effective, the theme will be used by a number of administrators, planners and consultants at the fort. The Army's consultants will need the theme guidelines to design new buildings, roads and

landscaping. The Army Corps of Engineers will use the guidelines as criteria for evaluating these new design proposals. Finally, personnel responsible for maintaining the grounds and buildings can, among other things, use the theme to determine landscaping and routine maintenance policies.

By using the theme as a way of coordinating the efforts of many, a greater degree of consistency can be developed in the processes of planning and design. The result will be an environment that not only functions well in a practical sense, but that will be visually attractive and inspiring to the fort's users and visitors.

EXECUTIVE

EXECUTIVESUMMARY

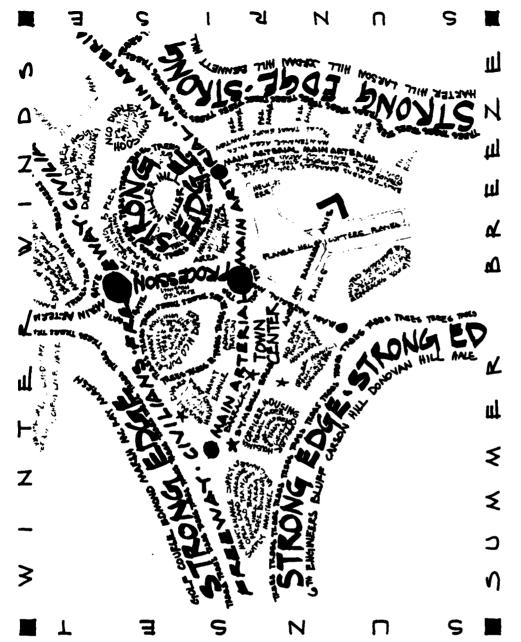
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- for it is here Department of the Army's directive planning and principles of design. estabilsh a sultable architectural phrase - good master planning and that the rationale is established and ultimate implementation of an character wherever feasible and This report is the culmination nonth study of Fort Lewis recommendations is on the last undertaken in respuse to the practical, using good master installations take steps to that "all permanent Army The emphasis in these priciples of design

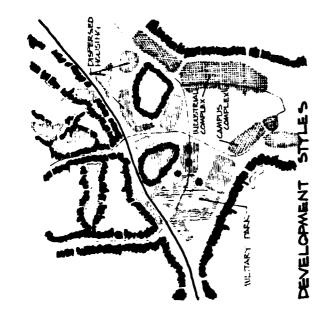
MILITARY PARK THEME - REVIVAL OF TRADITION

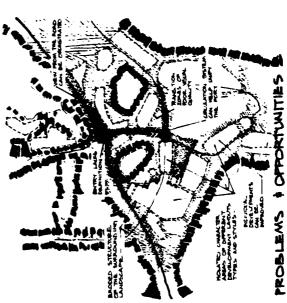
in January, 1984, following a detailed analysis of the heritage and present urban design character of the fort, it was recommended that Fort Lewis revive its design traditions as a military park, a theme established by the fort's master planning and design between 1927-1947. The Military Park Theme as expressed in the historic Garrison Area is not simply a pretty arhitectural picture. Indeed, the architectural character of the early buildings is handsome and worthy of emulation and reinterpretation



BACKGROUND ANALYSIS

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But what is more significant the way that the whole urban design for today's planning and design is angendering for those who use the fort a feeling of pride, sense of of the Military Park development values of order and discipline, expresses so well the military belonging, and common purpose. roday.

is also a matter of creating centers developments in with existing areas, development patterns and manipulate relationships between buildings and The Military Park Theme is a matter anvironment of the fort to enhance uniqueness as an installation. It of architecture and site planning, of planning for views, organizing baths and spaces, and using the the experience of seeing, thus of activity and infilling new using the magnificent natural circulation system to shape its sense of permanence and of establishing meaningful understanding, the fort's environment.

express the fort's military culture present development patterns to get gradually building upon all of the the Fort Lewis theme is based upon stronger and more unified image. The concept of a Military Park as Use them together, landscape, and circulation to the ideals of the military. architecture, site planning, essence, the theme says use and values.

The meat of this final report is how Theme, approved earlier by fort officials, can be used to guide the concept of a Military Park decisions of development and presentation on Fort Lewis.

GOALS, OBJECTIVES, AND POLICIES SECTION

Think of them as the statements about what Fort Lewis Design Policies. These are the framework and rationale for the The first section of the report theme. They are broad, general contains Goals, Objectives and fundamentals; they provide the fort's design beliefs. ought to be.

accompanying objectives and the six policies can be adopted by the fort as part of the Master Plan, thus providing a continuing guide for official design decision-making. The five major goals, with

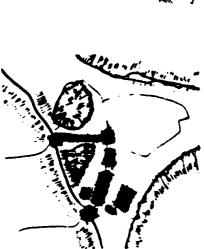
PART 1.3 MILITARY PARK THEME GOALS AND DESIGN OBJECTIVES

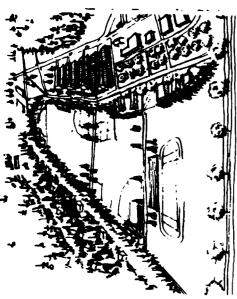
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objectives stated below are intended their values are. It is important that common attitudes about the role and function of both the millitary different areas and elements on the The Military Park Theme establishes theme helps to define why there is Implement a theme. The goals and an organizing framework to unite fort, how the fort operates, who and the fort are agreed upon to ives and works there, and what planning process they will serv fort into a perceivable whole. statements to guide decisions. the general direction-setting to help establish that common consensus. When adopted and incorporated into the fort's

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GOAL

Revive the military values of order, discipline and tradition and express those values in the physical environment at Fort Lewis.

Design Objectives

Use planning, landscaping, building layout and architectural design to express the fort's activities and the relative importance of a facility, place or district within its environment.

Preserve the fort's historically valued districts, monuments, architectural and landscape characteristics and views to ensure that a strong sense of military character and history is maintained.

Maintain existing and create new symbolic spaces to carry on the fort's early tradition of expressing its military values in the design of the environment.

GOAL 2

Improve the clarity of the fort's physical organization and layout.

Design Objectives

Develop road hierarchies and standard treatments to express the relative importance of each element in the circulation system.

Express entries and edges of districts with defined spatial treatments.

Cluster similar functional elements together to create districts or centers of



GOAL 3

Enhance the fort's quality of life.

Design Objectives

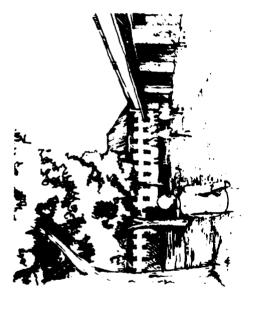
accommodating their complex needs. Develop a convenient and safe environment for the users by

Create centers within the fort to serve as focal points of activity and reinforce the identity of places.

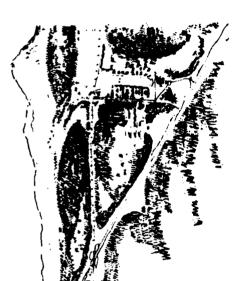
Design for both the public and private needs of families and individuals by defining spaces for their use.











GOAL 4

Lewis to maintain its distinct character and its relationship to the surrounding Enhance the locational identity of Fort region.

Design Objectives

Use native vegetation in the fort's landscaping. Preserve natural topographic features and direct views within developed areas to prominent natural features.

GOAL 5

With the appropriate the second secon

Clarify the military identity of the fort and project a positive image to the surrounding civilian population.

Design Objectives

Focus views to important fort landmarks from 1-5 and the main arterials on the fort.

Establish strong edges to the fort's boundaries with prominent gates and defined landscaping.



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PART 1.4 DESIGN POLICY STATEMENT

THE PROPERTY AND A SHOWN

The Military Park Theme is designed to guide decision-making concerning the development and preservation of Fort Lewis. A series of policies necessary to achieve this represents a move toward recognizing the positive aspects of the fort, to enhance and conserve them, and to enrich the social environment. These policies are meant to be adopted by the fort, along with the more general goals and objectives to provide a continuing guide for fort officials involved in its planning.

CSS

I. HISTORIC CONTINUITY

Production Research Production Continues

Preserve the historic Garrison Area. Build upon its Military Park principles of site continuing presence of the unique planning and architectural design throughout the fort to ensure the

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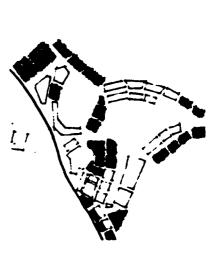


2. THE COMMUNITY CENTER

Emphasis should be placed on promoting Community Center as a unique and vital providing greater opportunity for social interaction particularly within the a strong sense of community and part of the fort's social structure. Reaffirm the importance of the Center's public spaces.







achieve the theme.

developments into the context of existing areas. Use the Military Park principles of design for building layout, architectural character, landscape and circulation to Use infill development to reverse the present trend toward isolated and dispersed developments. Fit new 3. INFILL DEVELOPMENT

4. CIRCULATION

between points of high demand. Limit the of single-occupancy vehicles and build a automobile. Improve shuttle-bus service fortwide pedestrian and bicycle network into the fort's design. Discourage the use amount of surface parking available and design parking facilities so as to reduce integrate a traffic management strategy to serve as an alternative to the private their impact on the fort's visual environment







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Preserve the qualities of the fort's natural landscape. It is a valuable resource for regional identity. The use of existing and

native vegetation should be integrated

developments. Distinctions should be clearly made between areas requiring formai landscape treatments, informal

into the design of all new fort

5. LANDSCA, B PRESERVATION

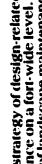


6. MAINTENANCE

characteristics of the environment should remain essentially undeveloped

and those where the natural

maintenance of buildings and grounds to maintenance on a fort-wide level. Vary the level of landscape maintenance help achieve the Fort Lewis design Pursue a strategy of design-related according to Policy 5: Use the incremental nature of routine theme



Compliance with the above design policies should neither increase fort operational expenditures nor add to the cost associated with new development. They are intended to be applicable, in an incremental fashion, to existing areas. For new developments, they should be incorporated as a matter of procedure into the design scheme. Through the acceptance and on-going application of these policy statements, they will serve as a guide in achieving the Military Park Theme.

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SECTION 11 DESIGN GUIDELINES

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The second section of the report contains specific design guidelines for the whole fort on an area by area basis. It is organized into three parts: guidelines for the builtup areas, for the unbuilt or undeveloped areas, and for circulation throughout the fort. Each area is treated separately because each has its own unique design problems and potentials. An like Section I, the guidelines may be adopted as part of the fort's Master Plan to provide a basis for design decisions and improvements.

BUILT AREAS

For the Built Areas, such as Troop and Family Housing, the Community Center and Administration areas, the aim is to enhance the design of these centers of activity to make them more enjoyable and identifiable as places with a recognizable thematic character.

In the Troop Housing, for example, design recommendations are made to implement the Military Park Theme incrementally through changes to landscaping and building color and by redefining the outdoor spaces and activities to once again establish the military traditions of formality and reinforce unit identity.

Theme guidelines are provided for the Headquarters/Administration

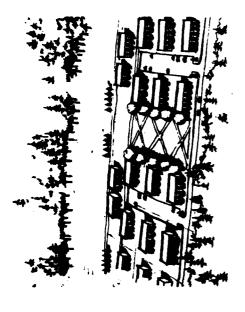
Areas to ensure that they provide visual sense of command authority and create a strong image as the fort's military center.

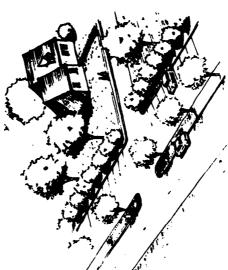
Design theme guidelines for the Community Center are almed at 1) providing for the social interaction needs of the Army personnel and their families; 2) developing the image of a pleasant, pedestrianscaled, well built up central business district on the fort and; 3) expressing military dignity in the environment through the design of buildings and outdoor spaces.

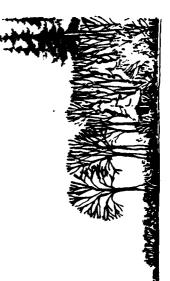
UNBUILT AREAS

which can be better used within the fort to convey powerful clues about areas - the ceremonial open places these areas as design resources to visual image. Three types of open and 3) natural areas for physical activities and social which frame the various building recreational areas - the settings military values of order, central the physical organizing features Design guidelines for the fort's unbullt open spaces seek to use spaces are dealt with: 1) formal create a comprehensive unified focus and disciplines; 2) settings on the fort. interaction;

The guildelines make it quite clear that all three types of open spaces have a role to play in building the Fort Lewis theme; each type of space needs to be treated in design terms













eccording to its function, and maintenance levels need to reflect these differences. For example, some areas should be left to develop into a purely natural state that requires very litle or no maintenance.

CIRCULATION SYSTEM

There should circulation system - the most wellare based on the theme's objectives arterial roads, collector and local be an obvious hierarchy, expressed through special design treatments. used design element on the fort of clarifying Fort Lewis's image, Entries into different through visual design, between crossing should be identified clarified and major points of character, and identity as a developments should also be Design guidelines for the military installation. streets.

SECTION 111

A strategy to incorporate the Military Park Theme into the planning and design processes at Fort Lewis is outlined in Section III. This is a section about responsibility and about who can make the theme happen. Three key actors for theme implementation are identified.

1) The Fort Command and Installation Planning Board - the voice of the military personnel on the fort and the ultimate proponents of the theme's military, social and livability based objectives.

2) Fort Lewis Master Planning Branch - the major on base agency for

2) Fort Lewis Master Planning Branch - the major on base agency for achieving local coordination of plans and policies; the "watch dog" of design theme concerns through master plan review and on-going maintenance efforts.

5) Seattle District Corps of Engineers - the crucial intermediary between the fort itself and private contractors of fort developments. The Corps as project manager must see that the fort's theme goals and design intentions are incorporated into all work undertaken on the installation.

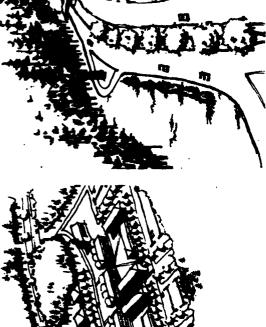
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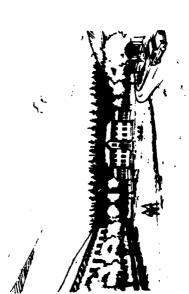
MASA MENNANAN INSPERSORATION OF THE CONTRACT OF THE PROPERTY O

This section addresses four specific projects, the first three of which have been programmed by the Army for action in the near future and afford unique opportunities to begin to establish the fort's Military Park Theme right away:

- 1. Jackson Avenue Troop Complex 2. | Corps Headquarters Complex
- Corps Headquarters Complex
 Community Facilites Expansion
 The Main Entrance

The guildelines for Special Projects are more detailed and site specific than the fort wide Design Guidelines in Section II. They are intended to provide the rationale, criteria and design thems terms of reference for assisting in design development and evaluation of these projects.





WHAT HAPPENS NEXT?

The state of the s

and takes four special projects into design guidelines on an area by area Seattle District Office of the Corps with the installation Planning Board happen. Only coordinated efforts of design policies. It gives fortwide design recommendations. The report the three major agencies - the Fort of Engineers and the Fort Commander Park Theme. It sets the framework in terms of goals, objectives and Lewis Master Planning Branch, the basis for accomplishing the theme The report provides the basis for - can see that the Military Park developing a Fort Lewis Military even greater detail in terms of however cannot make the theme Theme becomes a reality.

it is our recommendation that after careful review and refinement of this report, if necessary, Sections I and II be adopted as part of the Fort Lewis Master Pian. This will provide the above mentioned three agencies with a common basis for making design related decisions.

foster the Military Park Theme on

The report is not really a technical manual although it is written and organized in a way that can be helpful for informing any and all readers about the design intentions of Fort Lewis. We believe it would be prudent to place a good deal of design theme responsibility with the Master Planning Branch to augment and develop further the means for carrying out the theme. In essence,

the design theme: the spokesperson for it in dealing with both internal and external design related

and external design related projects, design review, project initiation and on-going maintenance procedures on base. It would be

ideal to have someone with planning and design skills in this position to not only represent the design theme objectives expressed in the

results of this report but to carry some of the work further, as necessary. Very little of the theme as proposed here is to be carried out separately from on going fort planning and development.

Implementation of the theme will be gradual, shirt-tailed on to all projects including landscape replacement, street changes, building maintenance, and signing, as well as new projects. Someone needs to be there, up front on all of these kinds of projects, to see that decisions are made so as to

SUMMARY OF NEXT STEPS

CONTROL SESSESSION CONTROL MARKET SESSESSION CONTROL

Action 1 - Incorporate Military Park Design Theme Into the Master Planning Process. Action 2 - Identify a Menager of the Design Theme to monitor and update implementation.

Action 3 - Establish procedures and refine objectives for developing new areas and adapting existing ones into the Military Park Theme.

Action 4 - Establish review processes and procedures to be followed by architectural and engineering firms to ensure theme integrity.

Action 5 - Establish maintenance procedures consistent with Military Park Theme concept.

Action 6 - Develop special projects from time to time to achieve design features of the theme. Get them funded and built.

Action 7 - Ensure clear communications between all parties involved in the planning and implementation process.

SECTION I THE MILITARY PARK THEME

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	1.2 The Military Park Theme - A Revival of a		heme	Garrison Area Design Principles	1.3 Military Park Theme Goals		1.4 Design Policy Statements27
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PART 1.1 WHAT IS A THEME?

A fundamental assumption made at the beginning of this study was that a design theme requires a more comprehensive outlook than the term theme might suggest.

A theme, as defined in Webster's, is a "recurring, unifying subject or idea...". Similarly, but stated in another way is the often used phrase "there are some common threads here." "Recurring ideas", "common threads", "underlying patterns"; all are familiar terms that broadly define the concept of a theme.

the recurring threads of a theme can unity. There are various ways of achieving this unity. For example, visually apparent treatments to the another because of some consistency of elements to estabilish an overall expresses a sense of wholeness and in materials, color, or style. At Fort Lewis a design theme will not Instead It will integrate a number Applied to an environment, a place environment can also relate to one be a matter of adding one or two with a design theme is one that character, siting and building relationships, and landscape fort's buildings or grounds. treatment. Elements in the come from the architctural sense of design unity.

PART 1.2 THE MILITARY PARK THEME . . A REVIVAL OF A TRADITION

Military Park Theme is based on what by a sense of history and tradition. military service that is reinforced based on these ideals, is rooted in a theme should do for the fort. It should build on the fort's existing lives there, and what their values should help define why there is a create a strong image to visitors fort, how the fort operates, who and to those who live there. It are. The Military Park concept, The recommendation to adopt the express a commonly held Idea of the belief that a theme should physical qualities in order to

The Garrison Area: A Model for the Theme

At the time the Garrison Area was developed, the Army Officer's Corps believed that military life with its discipline, routine, and reliance on command should be carried out in a park-like and formal setting distinctly separate from civilian life. The Garrison was designed to specifically express these objectives through its physical design. By taking advantage of the natural environment and providing different areas for living, drill,

architectural style of the buildings communicate how troops, officers and and display, it generated a sense of personnel. Two tree-covered ridges setting for day-to-day activities. Even today, the layout of the reinforce the image of a park and arrangement of buildings. Formal pride and belonging for military and a dramatic view of a distant created a spectacular ceremonial the command work together for a rows of vegetation, now mature, buildings, landscaping and the mountain were used as powerful design elements to order the common purpose.

pares. Leasures, reverses, recovers proposes, proposes, proposes, proposes, proposes, from the pares.

Garrison Area Design Principles

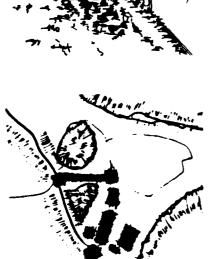
the Garrison Area are not new. They have been used throughout history in others and to society as a whole has The principles used in the design of between buildings, using the natural nclude, among others, establishing manipulate the experience of seeing especially at a time when the role and using he circulation system to environment to enhance a sense of of the individual in relation to organizing paths, forming spaces, urinciples used in the Garrison meaningful axial relationships shape development patterns and permanence and place, creating been particularly important. centers, planning for views, the design of environments, the fort's environment.

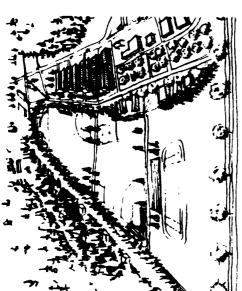
reinterpreted for today's realities, resources, through sensible traffic <u>+</u> the past. The Military Park Theme can be used to build a bridge with will be cuitivated through the use towever, many of the design ideas copied. There are functional and future development does not mean that the Garrison Area should be of the fort's natural and built used in the Garrison, carefully naintenance and development of The use of these principles in aconomic reasons not to do so. nanagement and by sensitive emaining unbuilt portions.

PART 1.3 MILITARY PARK THEME GOALS AND DESIGN OBJECTIVES

objectives stated below are intended their values are. It is important that common attitudes about the role planning process they will serve as different areas and elements on the The Military Park Theme establishes and the fort are agreed upon to implement a theme. The goals and and function of both the military an organizing framework to unite theme helps to define why there fort, how the fort operates, who lives and works there, and what ort into a perceivable whole. statements to guide decisions. the general direction-setting to help establish that common consensus. When adopted and Incorporated Into the fort's

COVI: 1





GOAL 1

Revive the military values of order, discipline and tradition and express those values in the physical environment at Fort Lewls.

Design Objectives

Use planning, landscaping, building layout and architectural design to express the fort's activities and the relative importance of a facility, place or district within its environment.

Preserve the fort's historically valued districts, monuments, architectural and landscape characteristics and views to ensure that a strong sense of military character and history is maintained.

Maintain existing and create new symbolic spaces to carry on the fort's early tradition of expressing its military values in the design of the environment.

GOAL 2

Improve the clarity of the fort's physical organization and layout.

Design Objectives

Develop road hierarchies and standard treatments to express the relative importance of each element in the circulation system.

Express entries and edges of districts with defined spatial treatments.

Cluster similar functional elements together to create districts or centers of use.



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GOAL 3

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Enhance the fort's quality of life.

Design Objectives

accommodating their complex needs. Develop a convenient and safe environment for the users by

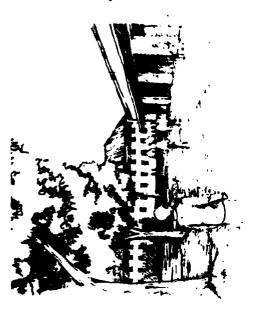
Create centers within the fort to serve as local points of activity and reinforce the Identify of places.

Design for both the public and private needs of families and individuals by defining spaces for their use

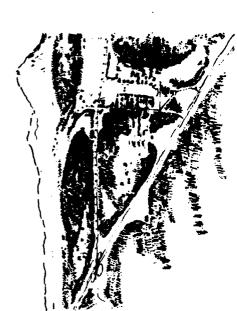








 \mathbf{COVF}



GOAL

Enhance the locational identity of Fort Lewis to maintain its distinct character and its relationship to the surrounding region.

Design Objectives

Use native vegetation in the fort's landscaping. Preserve natural topographic features and direct views within developed areas to prominent natural features.

GOAL 5

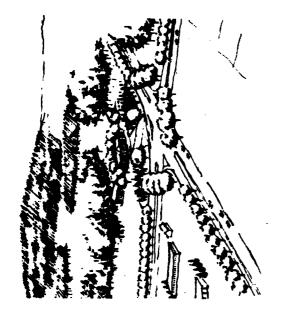
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Clarify the military identity of the fort and project a positive image to the surrounding civilian population.

Design Objectives

Focus views to important fort landmarks from 1-5 and the main arterials on the fort.

Establish strong edges to the fort's boundaries with prominent gates and defined landscaping.



COVF: 2

PART 1.4 DESIGN POLICY STATEMENT

The Military Park Theme is designed to guide decision-making concerning the development and preservation of Fort Lewis. A series of policies necessary to achieve this represents a move toward recognizing the positive aspects of the fort, to enhance and conserve them, and to enrich the social environment. These policies are meant to be adopted by the fort, along with the more general goals and objectives to provide a continuing guide for fort officials involved in its planning.

1. HISTORIC CONTINUITY

Transfer of the second

Preserve the historic Garrison Area. Build upon its Military Park principles of site planning and architectural design throughout the fort to ensure the continuing presence of the unique military character at Fort Lewis.

2. THE COMMUNITY CENTER

Reafilim the importance of the Community Center as a unique and vital part of the fort's social structure. Emphasis should be placed on promoting a strong sense of community and providing greater opportunity for social interaction particularly within the Center's public spaces.



POLICY



BOTICA

3. INFILL DEVELOPMENT

Use infill development to reverse the present frend toward isolated and dispersed developments. Fit new developments into the context of existing areas. Use the Military Park principles of design for building layout, architectural character, landscape and circulation to achieve the theme.

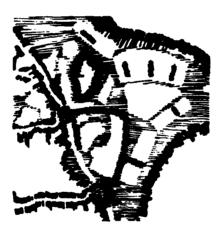
4. CIRCULATION

Integrate a traffic management strategy into the fort's design. Discourage the use of single-occupancy vehicles and build a fortwide pedesirian and blcycle network to serve as an alternative to the private automobile. Improve shuttle-bus service between points of high demand. Limit the amount of surface parking available and design parking facilities so as to reduce their impact on the fort's visual



BOCICK

POLICY



BOTICA

5. LANDSCAPE PRESERVATION

Preserve the qualities of the fort's natural landscape. It is a valuable resource for regional identity. The use of existing and native vegetation should be integrated into the design of all new fort developments. Distinctions should be clearly made between areas requiring formal landscape treatments, informal and those where the natural characteristics of the environment should remain essentially undeveloped.

6. MAINTENANCE

Pursue a strategy of design-related maintenance on a fort-wide level. Vary the level of landscape maintenance according to Policy 5: Use the incremental nature of routine maintenance of buildings and grounds to help achieve the Fort Lewis design theme.

Compliance with the above design policles should neither increase fort operational expenditures nor add to the cost associated with new development. They are intended to be applicable, in an incremental fashion, to existing areas. For new developments, they should be incorporated as a matter of procedure into the design scheme. Through the acceptance and on-going application of these policy statements, they will serve as a guide in achieving the Military Park Theme.

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SECTION 2 DESIGN GUIDELINES

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Z.1 Introduction	2.2 Built Areas34						2.3 Unbuilt Areas53	2.4 Circulation	;
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PART 2.1 DESIGN GUIDELINES

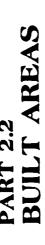
ntroduction

buffer zones with no distinguishable qualities. The suggested treatments The design guidelines are a means of create strong edges which promote a previous development patterns have left underdeveloped spaces between the built areas. They are used as visual awareness of the inside and component of the design guidelines visual image of the fort. The aim is the unbuilt areas. The fort's is to enhance the different built areas or centers of activities to recognizable character. Another treating common recurring design problems to improve the overal! for these areas are designed to outside qualities of the built dentifiable as places with a make them more enjoyable and

The circulation system is an important component in developing design guidelines. The primary way in which people move and see the physical environment is by the circulation network. The suggested treatments for the circulation system are designed to increase the observer's perception and awareness of the surrounding setting and to create a sequence of experiences.

require coordination in blending the elements into a functioning whole to qualities of a specific area for the improve the visual and environmental consistent method of applying these The treatments are intended to work image of the fort. It is important diverse and sometimes incompatible isers. The second is to promote a the whole fort. Changing one part scale. It is a procedure that will must be done within the context of of the fort's appearance will not to understand that both of these reinforce the image of the fort. treatments to achieve a unified achieve the theme at a fortwide at two levels. The first is to

identifiable places, recognizable by The circulation system would natural for the most part to provide connect these and provide the means practice, of course, the process of definitive boundaries to the built have the built areas develop into following guidelines are almed at mage will take a long time. The their distinct activity patterns. changing and unifying the fort's deal concept for the fort is to The unbuilt areas would be left of experiencing these different The treatments described in the establishing the ideals of a fortwide theme concept. In areas.



nvolves an interpretation about the ollowing guidelines are based upon social and psychological aspects of that should the 'character' be of physical display of recurring architectural elements, but also the different built areas on the fort? The theme is not only a the military life-style. both physical and social characteristics.

The existing built areas are:

- Family Housing Areas Froop Housing Areas
 - Headquarters/
- Administration Areas Community Center
 - Facilities
- Maintenance/ Supply Areas

TROOP HOUSING AREAS

allitary personnel with low incomes. froop housing areas can help single community within the fort. Troops antisted troops develop a sense of acilities, as well as serving as self-contained community setting, of membership, combined with the Their housing areas provide them the workplace and training area. themselves members of an 'elite' the troops in general consider are usually the young, single with living quarters, dining, recreational and religious group, the military.



TROOP HOUSING AREAS ON THE MAIN FORT

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produce a unique social and psychological environment found nowhere else on the fort.

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Consiste Soundary Consistence

it is important that the soldier feel "at home" in the complex, as well as feel part of a unit or group. The complex should be structured into formal military spaces and informal semiprivate spaces. Formal military spaces allow soldiers to display their pride and integrity as members of the military. The semiprivate spaces have a dual role; one for the expression of individual identity and the other for group or unit identity.

The troop housing area should be recognized as a special place. It should have a center and edges. Elements should be placed according to their symbolic meaning. The entry should delineate outside from inside.

Except in North Fort, the troop housing areas are considered to be 'fixed' on the fort. Buildings in these areas are constructed of brick, concrete or concrete block. Their physical structure and layout will not change in the near future. This means that to implement the theme in most of the existing troop areas, it will be necessary to adopt an incremental approach involving changes to landscaping and building color and redefining spaces and activities.

developed areas there is little that theme is consistent treatment of all The key element in implementing the area does the pattern of formal and actually can be done to change the estabilsh a cohesive character for Garrison Area is a good example of building layout creating a formal them. Within the fort's aiready layout. Only in the 3rd Brigade facade facing the street with an informal back to the work areas. The troop housing areas do have a similar Informal arrangements change. desirable in building layout. troop areas, which will help This type of arrangement is layout of buildings.

Troop Housing Areas EM Barracks No. 1-7

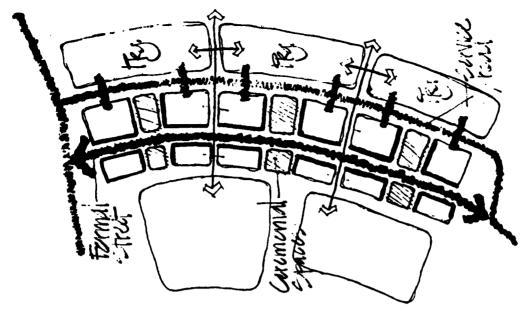
Building Layout

The troop housing areas lack the traditional hierarchical relationship between buildings in their arrangement around a symbolic ceremonial space.

Guidelines

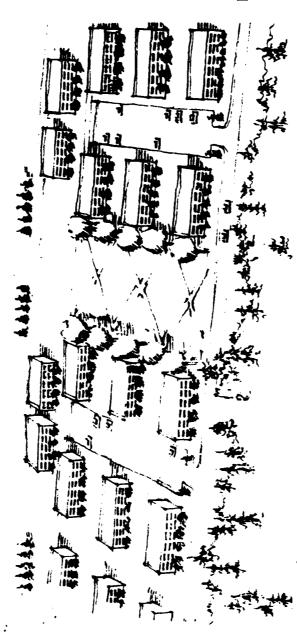
Develop a hierarchy of spaces within the complex to accommodate a series of activities.

Establish a ceremonial space for formal unit reviews. It should be the 'front yard' of the complex and the most formally landscaped.



Proposed spatial and circulation layout for EM Barracks 1-7





Aerial perspective of proposed troop complex

Create informal spaces to provide the different units of the complex an area for group gatherings.

Develop smaller court areas to provide the residents with a sense of privacy within the complex.

Define the street system to enhance the military character of the troop complex.

Establish a formal street to display the 'front yards' of the buildings and to provide a sense of orientation to the complex.

Establish a collector street to provide direct access to the complex. The streetscape should be natural and informal.

Develop a service street to provide access to the parking and delivery areas of the complex.

Landscaping

The lack of consistent landscaping produces a stark building appearance. This situation creates long sight lines from the street with no definition of public and private spaces.

Guidelines

a. Develop a formal 'front yard' with the planting of deciduous trees to emphasize the formal entry of the building. The planting of these

trees should be symmetrical, with the same number, size and type lining the street and sidewalks to the formal or main entrance of the building.

b. Plant Douglas Fir trees to create an overstory or canopy zone, when the trees mature. This will provide an umbrella of evergreen vegetation to give the area sense of human scale.

c. The large undefined area within the complex should be divided to create space for the different units. Using a combination of understory trees and shrubs, territories can be created for unit use. The vegetation should be natural and require very little maintenance.

d. Parking areas within the complex should be visually screened to improve the military character of the troop complex. Understory and shrub planting should be used to screen these areas from street views.

Circulation

There is poor pedestrian and bicycle circulation within the troop complex and poor access to other parts of the fort for the pedestrian and bicycle users.

Guidelines

a. Develop a pedestrian pathway network which is continuous and safe to use. Amenities for the

pedestrians should be provided to encourage people to use the pathways. Street furniture, drinking fountains, trash receptacies and lighting should be part of the overall design scheme to provide for their needs and to increase the enjoyment of walking on the fort.

b. Develop a bike path network to provide for safe and continuous movement on the fort. These paths should be separated from the vehicular traffic for safety and comfort of the bicycle user.

c. Pedestrian and bike pathways should be incorporated in the overall design of the street system on the fort.

FAMILY HOUSING AREAS

The family housing areas are grouped according to rank. This is an important factor in establishing the character of a housing area. It is consistent with the Military Park Theme because it displays the hierarchy of rank and the order of elements.

The fort's different housing areas reflect a constantly changing attitude of the Army in treatment and development of family housing.
Originally family housing was reserved for the Officer's Corps, but gradually the attitude shifted to include married enlisted personnel. This introduction of a broader range of permanent residents presents an excellent opportunity to develop a complete community of military personnel on the fort and, with that, display the hierarchy and order that is expressly military.

The family housing areas should provide the opportunity for the military personnel to include their families in a military environment. The area's layout and design should help instruct family members about the values and traditions of the Army. This does not mean that each family housing area is to have the character of a troop housing area, rather they should be less rigid or orthagonal in layout to reflect the family or lentated atmosphere while at the same time maintaining the quiet dignity and order

FAMILY HOUSING AREAS

characteristic of military installations. it is also important to allow distinctions among the family housing areas. Each area should have its own character, especially to express differences in the rank of personnel from one area to the next. Within an area the individual units should also have some means of allowing residents to express themselves. The division of private and public spaces is the best means of achieving this need.

The definition of personal or family space and public or military space should be recognizable to the user. Personal or family space is necessary for the family for privacy and to enhance close family relationships. Public or military spaces provide for the interaction with users who share the same social values.

Attached Family Housing Areas

Davis Hill/ Hillside/ Parkway/ Beachwood/ Miller Hill

Landscaping

The lack of different types and scale of vegetation in the area causes a stark and monotonous residential environment.

Guidelines

Davis Hill
Plant native evergreen trees
(Douglas Fir) to create an overstory
or canopy zone when they mature.
This umbreila of evergreen
vegetation, with the existing
deciduous understory vegetation,
will give the area an appropriate
sense of human scale.

Hillside/ Parkway

Plant native evergreen trees (Douglas fir) along the i-5 freeway and 41st Division Drive to buffer and soften views into the area. This planting should consist of a combination of overstory, understory and shrubs to create a strong barrier of natural vegetation with limited views into the housing areas.

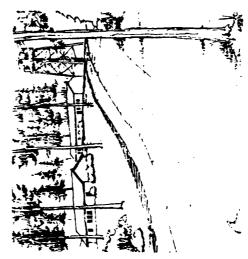
Plant the same number, size and type of deciduous trees in a symmetrical arrangement to create a formal streetscape.

Millerwoods/ Beachwood
Plant deciduous trees and shrubs at
and around the housing units to
create a balance with the overstory
vegetation.

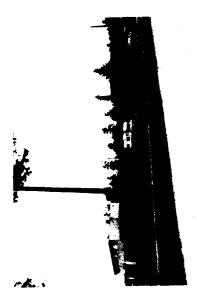
Hillside/ Parkway Plant understory trees and shrubs to provide visual screening for the clustered parking areas.



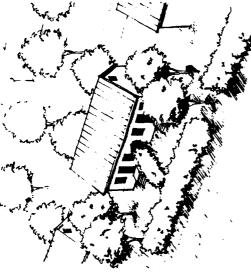
Existing



Proposed

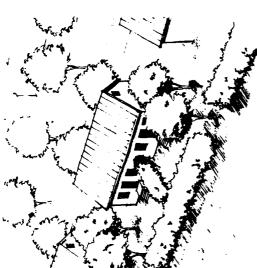


Existing

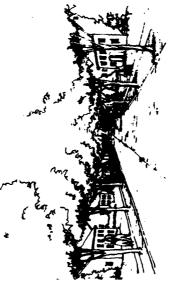




Proposed



Proposed screens



Formal streetscape

Public and Private Spaces

Housing units lack a clear definiton of public and private spaces for the completely exposed and have no sense The yard areas are residents. of privacy.

Guidelines

Millerwoods/Beachwood/Parkway/HIIIside/Davis HIII

Screen the rear yards with fencing or planting to provide a more private outdoor space.

consistent height throughout the Fencing should be earthtone in color, built of wood and of housing area.

existing vegetation in the housing Landscaping should provide privacy and fit into the context of

approach and entry of the individual Front yard planting should be of a formal character to emphasize the units.

Circulation

All Areas

path network exists to provide safe access to other areas of the fort. No continuous pedestrian and bike

Guidelines

Improve sidewalks and intersections in the areas and link them with the

fort's pedestrian network.

b. Establish bike lanes and link them with the fort's bike path network.

Detached Family Housing Areas Greenwood/Broadmoor

Public and Private Spaces

The lack of spatial delineation around the housing units does not provide for private family activities. The lack of vegetation allows unscreened views of back yards from the street.

Guidelines

Greenwood
Develop a formal front yard to be viewed from the street by emphasizing the entry of the unit with formal landscaping.

Develop a formal streetscape by planting the same number, size and type of deciduous trees to create a consistent pattern throughout the area.

Screen the rear yard to define its edges and improve the privacy of the individual units. This can be accomplished by fencing or landscaping.

Fencing should be consistent in color (earthtone), material (wood) and height throughout the housing area.

Landscaping should provide privacy and fit into the context of the existing vegetation.

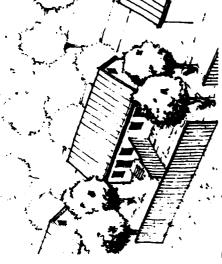
Landscape Buffer

Noise poliution from adjacent arterials creates an undesirable residential environment.

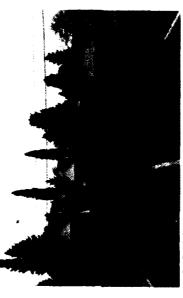
Guidelines

Greenwood

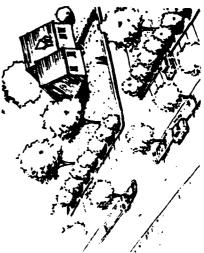
Develop a landscape buffer between the housing area edge and the arterial street. The landscape buffer should be a dense shrub planting in a natural setting to decrease the sense noise (if not the actual amount) and to visually screen the street from the residents.



Proposed screens



existing



Landscape buffer

public and by officials visiting the these sites. The Headquarters Area is the site most often seen by the personnel are required to work at areas of Fort Lewis serve as the The Headquarters/Administrative number of enlisted and civilian administrative process, a large work place for high ranking To support the decision-making centers. officers.

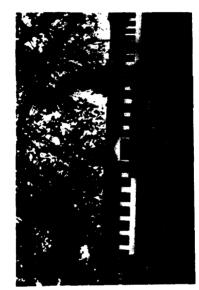
sense of authority and structure to Fort Lewis. They should provide a symbol of the military command for professional pride in the military Administrative areas should be a the fort and display a degree of Because of their administrative role, the Headquarters/



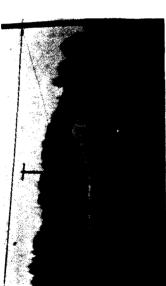
these activities are located in old causing it to have no strong sense structures don't enhance the sense The adminstrative functions are of centrality or core. Some of of authority or power which is dispersed throughout the fort associated with Headquarters. temporaty wood structures.

Guidelines

activities should be relocated into To establish a sense of centrality, the administrative support



Isolated areas



Isolated areas



Strong sense of identity

the Garrison Area of the fort. The troops housed in these buildings should be relocated to other troop housing areas.

The Post Headquarters should remain in the Garrison Area to help establish an identifiable center to the fort. Locating the Post Headquarters, financial and judicial activities in the historic Garrison Area will create a strong image of a military center.

Circulation

Traffic access and parking to the Post Headquarters is a major problem. The increased traffic has begun to overflow onto Liggett Avenue. This situation has changed the formal character of Liggett Avenue to that of a service street. On-street parking and parking lots in front of the building are unattractive and detract from the visual image of the building.

Guidelines

Limit the use of parking spaces in front of the Post Headquarters to short term use with a drop off-lane. The parking in the front should be removed from the street into a landscaped buffer parking lot off Liggett Avenue.

The formal streetscape on Liggett Avenue should be extended down to the Post Headquarters complex. The existing pattern and rhythm

established along the Parade Field by the vegetation should be continued the entire length of Liggett Avenue.

STATE OF THE STATE

The parking lots in the courtyard areas of all the Garrison Area buildings should be redesigned to create a parking scheme that does not detract from the view of the building. It should minimize any pedestrian/vehicle conflicts in the courtyard areas.

The vehicular access to the sites should be from Pendieton Avenue into the parking lots. Access from Liggett Avenue should be for formal events only.



Garrison Area parking lots



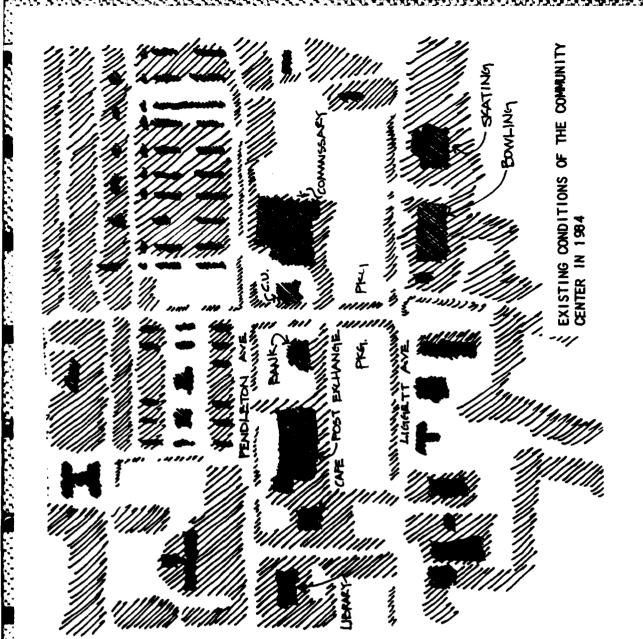
Formal streetscape

COMMUNITY CENTER FACILITIES

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Introduction

side of Pendleton Avenue are various library, exchange cafeteria, the PX, octivities are in buildings south of commissary, a telephone store and a important area for off-duty use and service uses are arranged along the a branch bank, a credit union, the From west to east they include the The Community Center Facility is a ligget Avenue. The commercial and entertainment, retail outlets, and s a mixing area for personnel and last food facility. On the north their families. The recreational commercial and service activities rental, bicycle shop, a beverage south side of Pendleton Avenue. operations including furniture store and a travel agent and collection of recreational, near the Garrison Area. provides basic services, services. The mixture of uses at the Community Center facility brings together the active and retired personnel and their dependents associated with Fort Lewis. It is a very active center. Children kick soccer balls against buildings and race around on bicycles; toddlers play at the day care, and on-duty personnel take breaks at the PX doughnut shop and cafeteria. Couples stroll along the sidewalk and mothers load bags of groceries into their cars. It is



the center for all diverse social activities on the fort.

TOURT CLOCKOCK MEETENSE ASSESSED TOURISTIC TOURISTICS INSTITUTE SOCIETIES WILLIAMS WAS ASSESSED TOURISM SOCIETIES.

mage of a central business district pedestrians can socialize, buy goods on the fort, and that expressed the The ideal Community Center for Fort and outdoor space design. In ideal Lewis would be one that encouraged Interaction needs of the personnel life in the Army through building semiformal space where automobile and seek services in an enjoyable and their families, that had the possibilities of a more dignified terms, the center should have a and provided for the social traffic is controlled and outdoor environment.

Existing Conditions

Currently, the Community Center occupies the area between North 8th Street to the west, 41st Street and Division Drive to the east, Nevada Avenue to the north and Bitar Avenue to the south. The terrain in the Community Center is flat. It is bounded by the open parade fleid extension to the south and Davis Hill to the north. Most of the land in the Community Center is used for parking, and roads. The review field extension south of Ligget Avenue is mostly grass and

bowiling alley, they are on Pendleton

brick, one story and flat roofed.

the Community Center are mostly

Except for the skating rink and

Avenue and face into a large parking

Avenue. The PX and Commissary have

lot that is accessed from Liggett

Avenue. Also, they are not pleasant

handsome, especially along Liggett

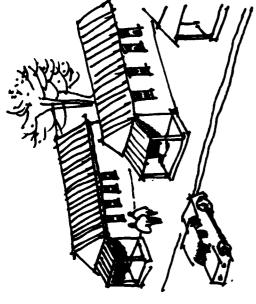
presence from the street is not

few windows or entrances.

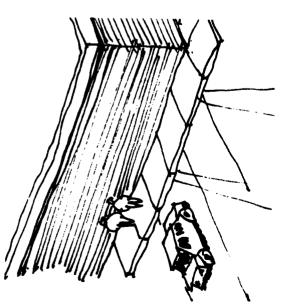
to walk near, because of the blank

aces and long unmodulated walls.

Center, each associated with its own edge to the street. These buildings They scales and layouts in the Community street with front porches and small this area enjoyable. The buildings Morid War II are larger and usually also oriented perpendicular to the because of their two story height, perpendicular to and spaced evenly approximately 40 feet and form an help form an outdoor space on the The never buildings in along Pendleton Avenue. Here the scale of development is small and spaces between the buildings make There are three distinct building two stories in height. They are built along Liggett Avenue after are pleasant to walk along and, natural tree cover and intimate parking lots along the sides. oulidings constructed in 1938 personal. The front porches, are set back from the road through 1945 were oriented period of development. sidewalk.



Scale of older building development is related to human size



Scale of new development is not well related to human size

The bank, credit union, and cafeteria are more pleasant because of their landscaping and transparent facades. None of the newer buildings have either the charm of the temporary buildings or the rugged handsomeness of the older permenent buildings. The outdoor spaces they form are barren and not conducive to social activity.

COLUMNOS POR POR CONTROL CONTR

The landscaping within the center is them. Further east, between Liggett relatively sparse. The library and Generally, the frees were planted within the major the PX cafeteria are surrounded by grass areas around the library and parking areas to visually divide area is open and unshaded. Some cafeteria, bushes and trees were along the south edge of Liggett and Pendleton, the planting is the most landscaping. At the used to screen the parking. Avenue accent the buildings. noticeably reduced.

The area works well for single use commuters who arrive, park, buy and leave. It works poorly for those who come to the center to mix with others, browse, and stroll. These people generally arrive by auto and then leave it behind to walk about. The new PX has an imitation human-scaled street within the building which is heavily used but a real street.

Building Layout

The building layouts at the CCF are detrimental to street and sidewalk life with their associated social activities because they do not form enjoyable outdoor spaces. In addition, they encourage auto usage because of their expansive siting and generous parking.

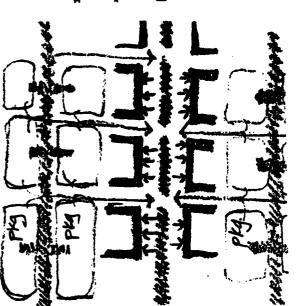
Guidelines

Maintain uniform setbacks from streets. This will help to form edges to outdoor spaces which are pleasant for pedestrian use.

Whenever feasible cluster the buildings tightly together. Use party wall construction. This eliminates unused spaces between buildings and helps to reinforce the form of a shopping street.

Break up building clusters with cross access streets at every 200 to 400 feet. This allows pedestrians to circulate to other streets and provides more street frontage.

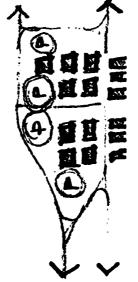
When expanding facilities, avoid using new sites that spread out the center. Locate new facilities next to, in between, or on top of existing buildings to reinforce the street edge, and create a dense and continuous built environment.



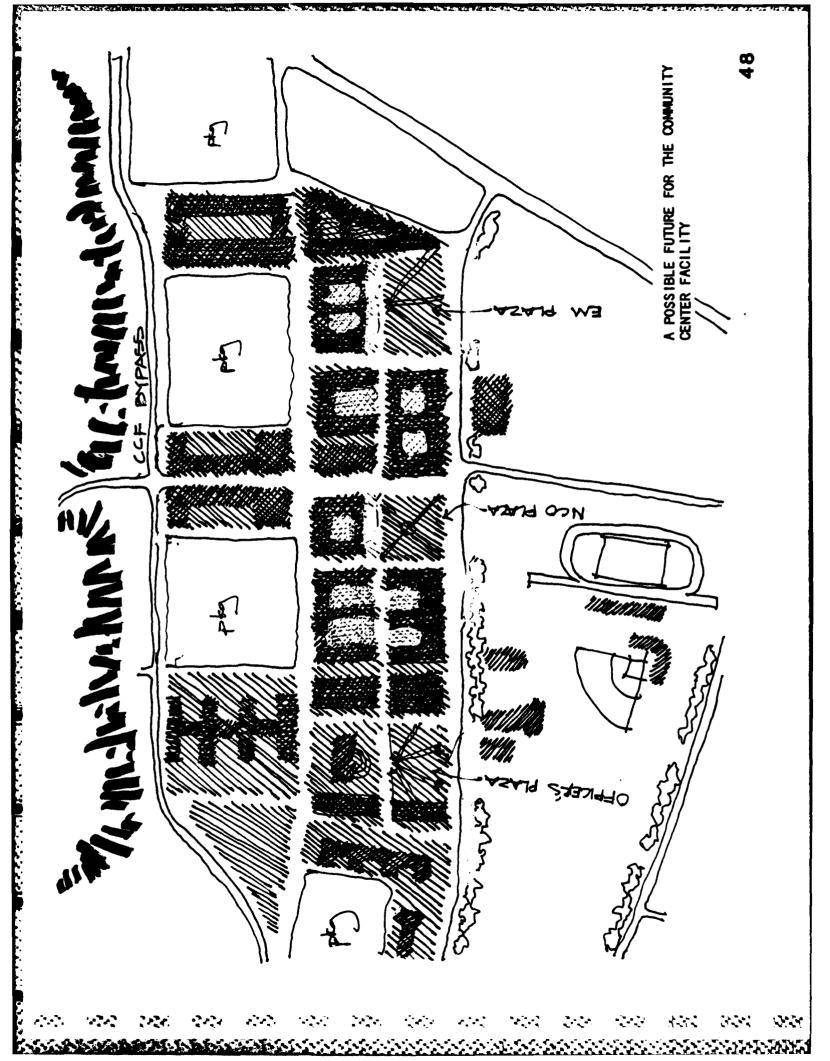
To make a main street



First: Move traffic and parking to the north



Then: Fill in former parking



Circulation

The CCF is dominated by automobiles and through traffic divides the area in half, leading to a poorly defined environment for pedestrians.

Guidelines

Locate the majority of the Community Center parking near the bypass road. People can then filter between buildings to Liggett and Pendleton Avenues which should be more pedestrian oriented. Provide easy access for shoppers near the service docks of buildings so they can pick up major purchases with their automobiles when they leave if

Route through traffic around the Community Center. The fiscal year 1986 plan proposes a Community Center bypass that should be implemented.

Create an extensive pedestrian system throughout the Community Center Facility which emphasizes amenities. Widen sidewalks along building faces. Link sidewalks to the fort-wide pedestrian system and to the parking areas around the Community Center. Provide street furniture, water fountains and landscaping for the sidewalks. The sidewalk surface should be paved in brick at the heavily trafficked areas and should be used to indicate pedestrian crossings.

Building Design

The building design used in the CCF, the PX, Bowling Center and Skating Rink are single story brick structures with no glazing, few doors and little visual interest to enhance the street.

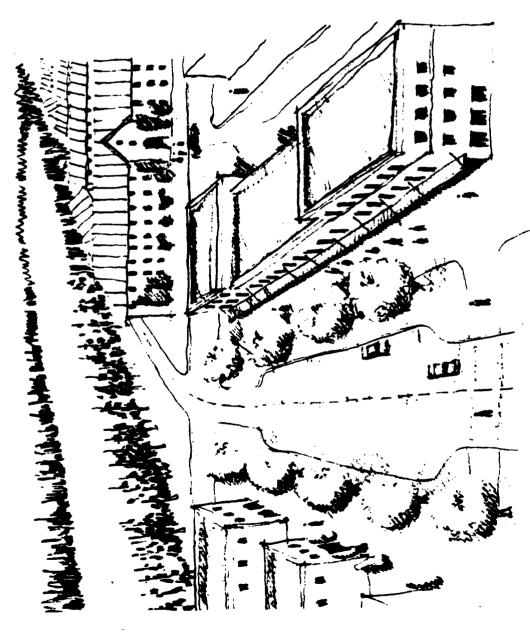
Guidelines

Build two or three story buildings, put in doors to the street, break the scale down with structural openings, and place windows at sidewalk level. Reserve single-story warehouse building types for maintenance areas.

Mix uses within buildings. Place the most visually interesting uses, such as retail shops, cafes, etc., on the lower floors to encourage pedestrian interaction. Place services on the upper floors. Whenever feasible, break up large, single-space, multi-service shops like the PX and Commissary into smaller single-service shops with their own entries to the street and their own identities.

Use masonry and glass building materials. Select a common bay system and use it for most of the buildings within the center to maintain visual unity. Glass should account for the majority of the material on the street faces of the buildings to create an interesting, varied pedestrian environment. Carry cornice lines or accent lines across different building facades to visually link them together.

Provide weather protection (awnings, canopies, etc.) along the sidewalk supported from building facades.



The CCF with parking areas developed ∵

Landscaping

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Landscaping within the CCF does not link up well with the fort nor is it used well to enhance the general visual image.

Guidelines

Carry the landscaping of surrounding areas into the Community Center to integrate it with the fabric of the fort. Evergreen trees on Davis Hill should continue down into the northern part of the Community Center. More formal landscaping should be carried from the Review Field onto Liggett Avenue to link it visually with the Garrison Area.

Use landscaping to screen and break up parking areas. The lots should be no more than three alsies wide.

MAINTENANCE/SUPPLY AREAS

The maintenance and supply areas are the workplaces for a large number of the personnel attached to the fort. Pride for the work done at the site should be apparent in the appearance of the area and reflect the Army's sense of readiness

Visual Image

The Maintenance/Supply Areas are typically open storage areas or lots, which are very sparsely landscaped, creating a visually stark and barren environment. This setting is visible from the major arterials and from the 1-5 freeway, conveying a negative image of the fort.

Guidelines

- a. The long sight lines in these areas should be broken up. Areas of native and planted vegetation should be developed to screen and buffer the open storage areas and lots.
- b. Streets should be defined with curbs and sidewalks to help separate them from the parking and the street right-of-way.
- c. Develop a more human environment for the personnel who work in these areas. Amenities should be developed for recreational and relaxation spaces, to encourage personnel to enjoy and identify positively with their work areas.

Land Use

The maintenance facility in the Garrison Area is an inappropriate use of land. The activities which are generated by the maintenance facilities are incompatible with the surrounding areas. The traffic, noise, and poliution caused by these facilities are unacceptable in relation to the surrounding activities.

Guidelines

The maintenance facilities in the Garrison Area should be relocated outside of the area. The brick structures should be renovated to house support services for the administrative sections of the fort. Part of the facilities could be used for community services activities.

Colorado Ave

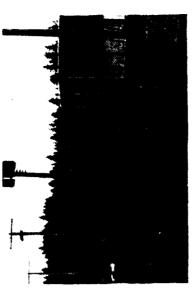
The maintenance facilities north of the airfield between Tacoma Avenue and Colorado Avenue are under utilized areas. Their location on the main entrance to the fort (41st Division Dr) creates a negative visual appearance.

Guidelines

 a. The temporary structures should be replaced by more permanent buildings constructed of concrete or masonry.



Long sight lines to buildings



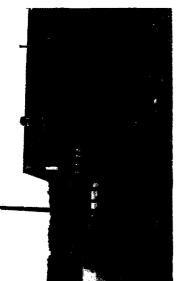
Long sight lines to buildings



No street definition



Existing



areas of vegetation should be massed c. The new facilities should be designed to improve the view of the into clusters and allowed to mature planted to screen and enhance the image of the facilities. These area. Natural areas should be into a natural setting.

should be preserved and incorporated into the layout of the new

facilities.

Existing native vegetation



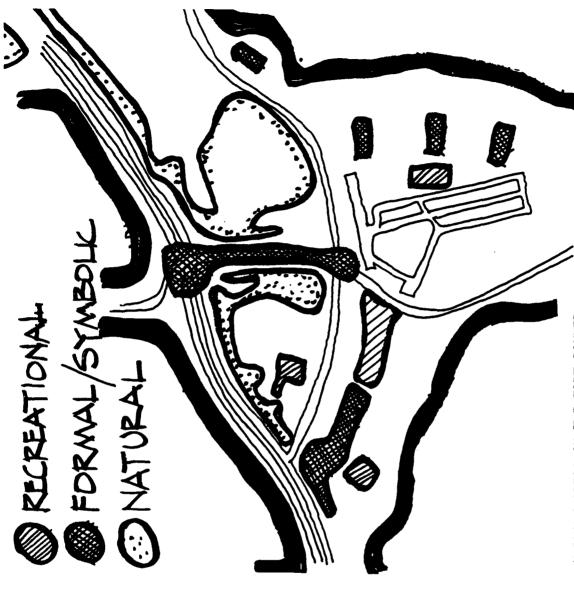
Proposed

PART 2.3 UNBUILT AREAS

The fort, in the process of development, has left a pattern of open spaces between the developed areas. These spaces serve as buffers between the built areas and have significant potential for unifying the fort into a comprehensible whole as elements of the theme.

The existing open spaces can be classified into three general types. Formal areas are the ceremonial open places which display a military setting. The second type is recreational space located throughout the fort. The third type is the areas left in a natural state which tend to be buffer zones between built up areas of activity.

Formal open space areas are typically those reserved for special occasions or are spaces which are designed to be viewed but not actively used. These formal settings become very special places within the fort's overall environment. They are relatively rare but more important their formality conveys a message about order, central focus and discipline. They are powerful clues to military values and thus can be used to reinforce social and functional



UNBUILT AREAS ON THE FORT RANKED ACCORDING TO USE/IMAGE

Formal areas



Recreational areas



Natural areas

Recreational areas, as the second type of unbuilt area, are places which create a setting for physical activities and social interaction. An enjoyable atmosphere is produced by the mixture of physical and social factors. This provides a setting for the physically active idoers! and the passive spectators or 'watchers' to mix together. Analogous to a magnet, the setting attracts people because of the activities taking place.

The third type is the natural areas. These are the physical organizing features which frame or define edges to settings on the fort. They also provide a sense of enclosure, a backdrop for viewing distinct places. The natural areas can be used on a fort-wide scale to create a series of enclosed spaces, distinct from one another, but linked together.

These three types of open space areas should be used as design tools to create a comprehensive unified visual image. Each unbuit area can act as a supporting element to the built areas to communicate the structure of the fort and provide people with a clear sense of orientation.

All of these unbuilt areas should be thought of as design resources for linking the different parts of the fort together and reinforcing its overall visual image. Treating these areas in special ways can also

break up the visual monotony of some of the open spaces and reinforce the recognizable qualities of different places on the fort.

Maintenance of Open Spaces

Maintenance of open spaces is too uniform resulting in expensive upkeep and an appearance of undifferentiated sameness. A heirarchical category of areas with their own maintenance guidelines should be established. Important areas should receive the most attention. Larger unused spaces should be left to return to a natural state, helping to reduce maintenance costs.

Guidelines

Formal outdoor spaces throughout the fort should be selected for the most groomed landscaping. These spaces should be at building fronts, in review field areas, along the center of arterial roads, and at gates. Other spaces should be more naturally landscaped with native plants and groundcovers that can be easily maintained. Open spaces between projects should be left in a natural state that requires little or no maintenance.

The fort's review fields and entrances should receive special maintenance to enhance their visual qualities. The landscaping in these particular areas should be

immaculate to cummunicate the identity of a military place.

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The edges of all formal open spaces should be well defined to concentrate attention on the setting.

Review Field Extension

The Review Field extension south of the OCF is being eroded by development within its boundaries.

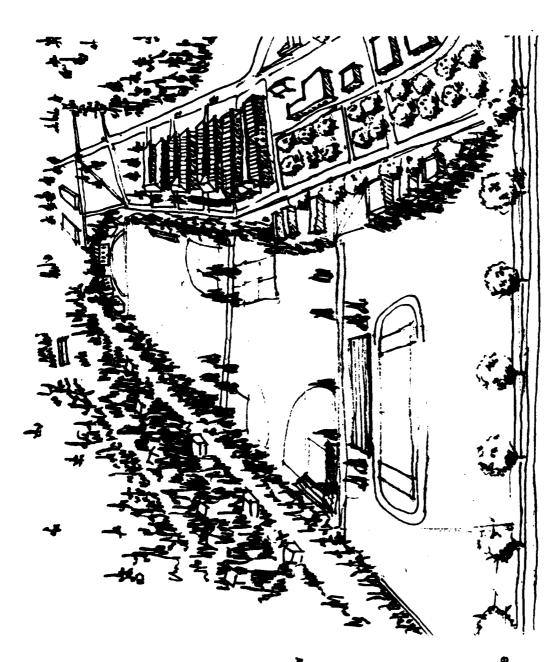
Guidelines

Buildings now terminating the review field extension including Grade School #2, the football field, bleachers, and the baseball stands and the baseball stands should be moved when they reach the end of their serivce life. The seats should be relocated along the north or south edges of the field. The school should be relocated to another site.

A policy restricting development on the review field extension should be established. If feasible, the planned youth center and daycare facility should be located south of Bitar Avenue to maintain the open space character of this area.

Neighborhood Facilities

There is a lack of neighborhood recreational facilities within the



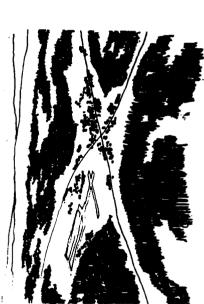
different family housing areas.
Open spaces within these areas are undefined and unused by residents.

Guidelines

Establish neighborhood recreational areas at sites convenient to the family housing areas.



The view corridors from the freeway to the fort



The natural topographic edges of the fort

facilities at these recreational areas should be appropriate for family-oriented activities. They should have site amenities to support these activities and families should be involved in determining what is appropriate.

Part of the second

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These facilities should be linked together with a pedestrian and bike path network to encourage safe and continuous movement around the fort and reduce the tendency to use the automobile for every trip.

Freeway Views

The fort's visual image from the freeway is not clear. The view to the fort neither establishes its identity as a military place nor is it evident where the fort's teritory begins and ends.

Guidelines

Unbuilt areas along the edge of the freeway should be redesigned to create view corridors to the fort. These should be developed with messes of natural landscaping to serve as screens, to focus views on significant settings, and to define the fort's boundaries.

The landscaped areas should use a combination of native vegetation and be allowed to grow in a natural state requiring little meintenence.

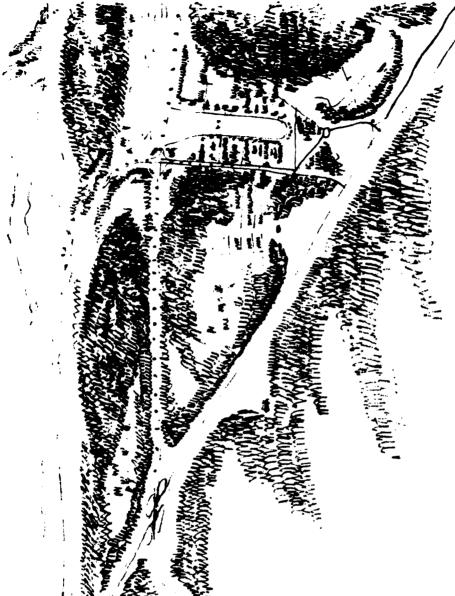
Natural Character

The natural wooded hills forming edges to development on the flat ground in the cantonment area is being eroded. Davis Hill has been developed and most of its tree cover removed. Other hills are being encroached upon by more developments.

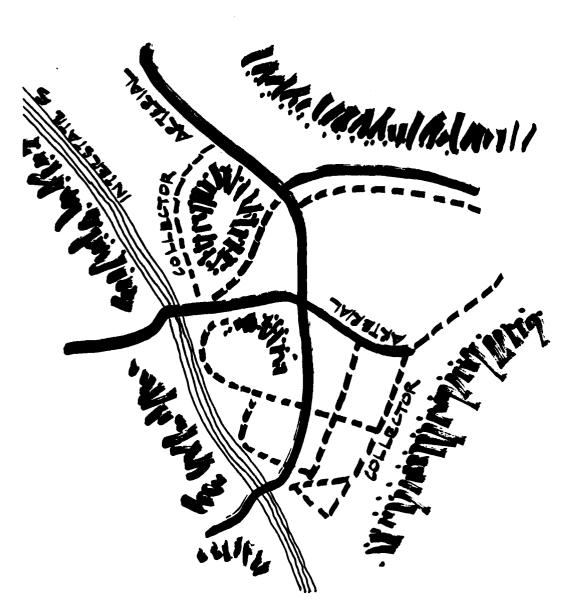
Guidelines

Replant as many Douglas Fir trees as possible on Davis Hill to help re-establish the natural structured setting for the fort.

Preserve the 6th Engineers Bluff, Miller Hill, and the ridge formed by Brimer, Bennett, and Harper Hills.



The fort layout between existing hills and orientation to Mt. Rainler



CIRCULATION ON THE FORT

PART 2.4 CIRCULATION

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The circulation system of Fort Lewis element on the fort. The system is backbone structure of the fort, the The circulation system s important for the theme because hierarchy of elements within this tank trails, streets and railroad material and personnel throughout consists of footpaths, sidewalks, spurs designed to move equipment, numbers of men and material must t is the most extensively used mobilization for war when large the key to orienting people and create a sense of unity. There system. Entries into different communicating the fort's image, circulation system should help crossing should be identified. The system becomes clarified and major points of character, and identity as a move about for training and developments should also be especially important during should be an obvious visual military installation. deployment. the fort.

Street Differentiation

The difference between arterial roads, collector and local streets is not visually apparent.

Guidelines

Reinforce the distinction between arterials, collectors, and local

streets by using landscaping, edge treetments, signage and intersection design to convey the differences in form and function.

The control of the co

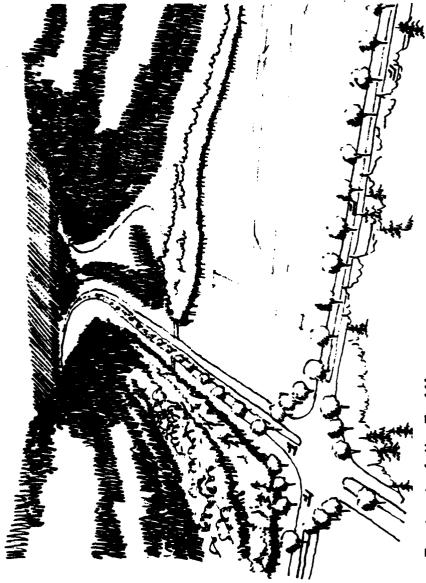
Arterial

The arterials on the fort are 41st Division Drive, Pendieton and Jackson Avenues. These streets are the primary north/south and east/west routes on the fort.

The arterial streets in general should contain a central median separating opposing traffic lanes. This median leaves space for planting, a left turn lane where it intersects with collector roads, and breaks up the wide expanse of asphalt.

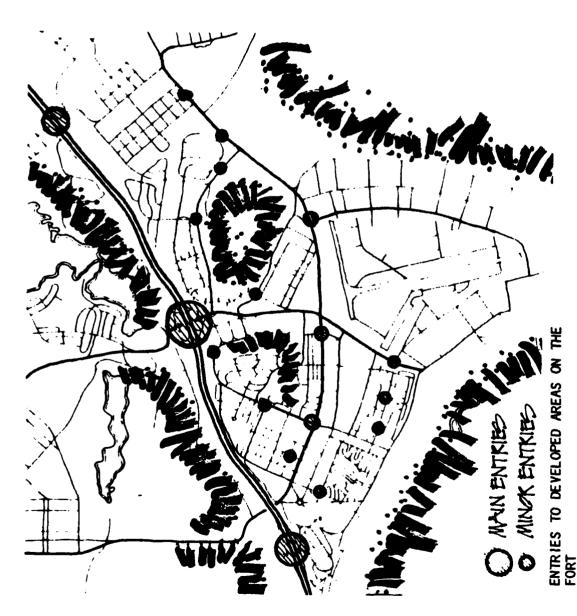
add variety to this central planting strip, and make it a special linear edge and divider islands should be The selection and placement formally treated, and symmetrical. andscaped to improve their visual median trees should be planned to image and to create a processional regularity. It should be regular, for planting in the median should visually emphasize formality and The central median, the road Seasonal color changes for the link within the evergreen surroundings of the fort. ood.

Along the road edge, the tree placement should be much more fluid.



Treatment of the Traffic Distribution Point at the Intersection of the two main arterials

Evergreen trees and bushes are recommended. The evergreen trees help to identify the regional context of the fort and provide an important part of its natural context. The evergreen trees along the road should be used to define the road edges, screen minor elements on the fort and focus views to important monuments that express



the hierarchy of command in the Army. In general, the roadside planting should try to re-establish the natural ground cover and the roads should look as if they were

sliced out of the natural prairie

grass or evergreen ground cover.

important elements of the fort operation should be framed in the views from the road; unimportant elements should be screened.

Equipment such as tanks, trucks, jeeps, and helicopters are good identifiers of Army activity and all of these objects can be visually impressive from the road. The view of the air field should be open but can be adjusted with plantings to emphasize its most active areas.

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Collector

The collector streets on the fort are Perimeter Road, Colorado Avenue, Ninth Division Drive, Division Street, Stryker and Man Avenues, East Gate Road, Second, Third and Fourth Division Drives, Hilliside Drive, Garcia Boulevard, and Biain Avenue. These streets carry their traffic efficiently on two lanes.

These streets should be treated less elaborately than the arterial streets. No center median is necessary. If in the future a collector street needs to be widened to four lanes, its classification should be upgraded to an arterial.

Planting along the roadsides should be in accordance with the arterial streets. In the developed areas a more refined and varied landscaping with lawns and bushes accenting the buildings as a contrast to the more rugged and natural areas should be developed.

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More

Entries

The circulation system is not broken down into a sequence of spaces. The system doesn't orient users as they travel into and out of project areas.

Project areas such as Hillside, EM Barracks 1-7, and Davis Hill are distinct units. They should have their own edges and "gates" on main collector roads that serve them. These "gates" should be designed to express the local character.

The "gate" itself should frame the road with vertical elements. should not interfere with traffic flow but should signal the entry into another area. A sign indicating the name of the area should be included in the assemblage.

<u>+</u>

Trees and bushes should be used to signal entry to a project. They should be located on each side of the road and be common in the project area.

The entry should be at an intersection with another road where possible

Intersection Design

Intersections between roads do not signal the relative hierarchy of streets. Intersections between arterials and collectors and collectors and

intersections should be laid out and landscaped to form gateways from major roads to minor ones.

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These intersections in 1984 are where 41st Division Drive intersects Hilliside Drive, Colorado, Tacoma, Nevada, Liggett, Bitar, and Stryker Avenues. The intersections with Pendieton/Jackson Avenues are Hospital and 9th Division Drives, Hilliside Drive, Honeysuckie Lene, 8th, 7th, 6th Streets. A total of 21 intersections of this type are on the fort.

should be signaled with arrangements angled at or near 90 degrees to make onto a collector street by forming a where Ninth Division Drive, Division left turn lames. Landscaping at the the major and minor roads, and third center median of the arterial should design is threefold. First, to ease In the built-up areas, intersection should be set back to Trees should announce the entrance to beautify the intersection. The the traffic flow, second to signal of bushes near the curb to form a Pendieton Avenue the Intersection allow views of oncoming vehicles. These intersections should be Street and Colorado Avenue cross narrow down in size to allow for clear distinctions between them. The intent of the intersection gate to the collector streets. gate to it.

intersections with local streets should make a visible distinction between local and collector streets



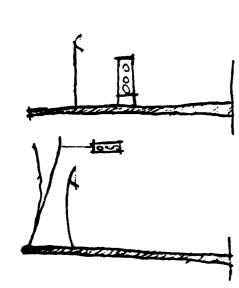
Minor project entry identified by landscaping

. . .



intersection of a collector and a local street identified by landscaping

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Standards should combine functions to reduce signage.

by bottlenecking entries to the local streets. These intersections should be about ninety degrees. Curbs or landscaping can be used to make the entries to local streets smaller.

Pedestrian Circulation

The fort lacks a separate and complete pedestrian circulation system to accommodate alternate modes of travel. Pedestrians and bloyclists can save fuel and reduce congestion and noise on the street system. The existence of a continuous system would encourage pedestrian travel, and personnel on the fort could enjoy a closer relationship with its natural setting.

walk should cross main intersections Sidewalks should be built along ow fixtures and have strategically to allow pedestrian use of traffic should have its own lighting from undeveloped areas of the fort and located drinking fountains. The distanced from traffic to reduce developed areas, using concrete, pedestrian and bicycle traffic. arterial roads but separated by noise. The sidewalks should be more durable materials in the substantial landscaping and Inexpensive asphalt for the washed aggregate or pavers. lights. The paving can be large enough to carry both

2 visually separated with landscaping. This same recommendation applies to pedestrian traffic on local streets Sidewalks on collector streets Sidewalks should be omitted where safe pedestrian system should not safety reasons. They need not be necessary to form a complete and automobile traffic but only for **Bet** need to be separated from the sidewalks and paths that are sidewalks for local streets. is not sufficiently high. excluded.

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Street Standards

A variety of signage makes the roadside feel cluttered and informal which is not consistent ith the image that the Army wishes to present.

Standards should combine functions to reduce signage. Stoplights and high and low ambient lighting can be combined on a single pole, especially at intersections. The poles should blend with the natural background. Mood or concrete poles have a natural patina that blends well with the natural environment.

Signs

Signage at the fort is similar to civilian examples.

A system of signage should be developed to unify the fort's street

example of this typeof system can be landscape. Large clusters of signs system reinforces the special place of the parks and distinguishes them seen in the National Parks. Their towns. One suggestion would be to This system should include A successful and beautiful At Fort Lewis, this signage system tint all the signage into a muted proximity to surrounding civilian from their non-park surroundings. becomes important because of its earth tone coloration that would directional and traffic control should be avoided to keep from blend with the buildings and confusing the drivers.

COLUMN TO THE PROPERTY OF THE

Parking

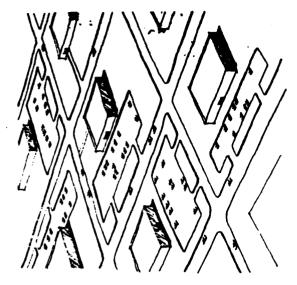
Parking lots occupy large areas on the fort and generally have a negative visual image.

and fuel.

Where parking demands are light and the lots are small in relation to the surrounding buildings, low scaled landscaping should be used to improve their image. They should mix in with the buildings, breaking the lightly demanded parking into small and inconspicuous lots.

Where parking demands are heavy, the lots can take over the visual scene making a dismal environment, especially where lots are for peak usage but are empty most of the day. In this situation, the lots should be located back and behind the structures. Large expanses of

proven to be destructive to both the importance of the automobile and the used to cut down the demand on space parking takes too much surface area, transit alternatives can reduce the environment of the fort. Limiting muiti-level garages should be used number of automobiles used on the The policy of broken up with bushes, trees, and land forms. Where the demand for increased pedestrian awareness of auto access to the fort might be accommodating the automobile has to provide for a large number of fortis environment needs to be carefully weighed. The policy The balance between the pavement should be avoided and physical and the psychological cars in a small area. A mass transit promotion program and fort.



Today's planning policies encourage this type of physical environment

SECTION 3 IMPLEMENTATION

SECTIO SECTIO IMPLE 3.1 Introduction 3.2 The Theme ar 3.5 Formulating 3.5 How to imple Fort Les The Seaf Install In

PART 3.1 INTRODUCTION

TOUR PROPERTY OF THE PROPERTY

The implementation section of this report describes a strategy designed to incorporate the Military Park Theme into the Master Planning process at Fort Lewis. In order to accomplish this, it is necessary to understand this process, how the plan is formulated, who are the principle actors involved, how they relate to one another and what actions must be taken to successfully implement the fort-wide theme.

Over the past decade there has been a growing concern at the national level regarding the physical design of military installations. The Department of Defense (D.O.D.) has taken several steps to improve the livability and environmental quality of installations as a means for attracting skilled and motivated personnel.

A first step was the publication and dissemination of the installation Design Manual, a technical report developed for use on all installations. The manual identifies recurring design problems and makes suggestions, at a general level, as to how they can be treated. Although generic and broad-brushed by necessity, the manual has been successful in raising the awareness of the value of good design and pointing out how

improvements can be achieved in overail planning, design and development activities.

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The D.O.D., building upon the objectives and ideas contained in the manual, recently directed each installation to develop its own design theme and guidelines. Thes are to be incorporated into the Master Plan of the Installation.

At Fort Lewis the concept of the Military Park Theme was endorsed during Phase 1 of this study; a theme based upon the fort's unique culture, historical and natural resources. The theme prescribes a set of goals and objectives to enhance the visual quality of the installation and improve the quality of 11fe for the personnel who live and work there.

The D.O.D. established the need for improving the visual quality of military installations. Fort Lewis's response to this need is the Military Park Theme. It sets the design direction and says, in essence, how the fort should develop in the future. What remains to be done is implementation, that is, identifying the steps that must be taken over time and assigning responsibilities in order to

PART 3.2 THE THEME AND THE MASTER PLANNING PROCESS

well, the ongoing maintenance on the achieving the Military Park Theme at necessity depend a great deal on the decision-making responsibilities for existing, institutional framework of decisions affecting planning, design design quality of Fort Lewis it must of military decision making and the implementation of the theme will by Because of the hierarchical nature Board, and the Corps of Engineers. new developments. It includes as includes the installation's Master successful tool for improving the This framework, called Plan, with its related staff and individuals from maintaining any fort, the Installation Planning concert, affords the means for In order for the theme to be a Each one of these, working in become a workable part of all high level of turnover where the master planning process, and development at the fort. personnel shifts preclude ong-term commitments, olanning.

Master Planning has been used by the military since 1950. The process was designed to allow for centralized control and efficient

administration of all military activities. Although the process has been instrumental in keeping track of military resources and government expenditures for military installations it has not been very effective in helping installations to develop their own sense of design unity and overall character. To be certain some fine examples of good architecture have been built during this time on many installations but too often these have occurred as isolated entities.

CONTROL DISCOURS SECTION BEAST

Unrelated and unconnected to the rest of the environment, these individual pieces of good design contribute little to the achievement of an overall design theme. It will take a much more conscious, concerted effort through the present process of Master Planning to make this coordination in design and development happen.

The D.O.D.'s installation Design Manual also identifies master planning as the appropriate vehicle for incorporating urban design considerations into a fort's development process.

"If the visual quality of military installations is to be improved design procedures as well as guidelines must be incorporated into the installation Master Planning process. It is at the master planning level that there is an appropriate overview directed at ensuring overall coordination among individual program needs.

formulation of an installation design guide as part of the Master Planning process is the proposed mechanism to guide the improvement of the visual quality of a military installation." (installation Design Manual, page 5)

ALEM CARCINGS SUBSTITUTE

For Fort Lewis the design guide referred to in the above recommedation is the Military Park Theme and the proposed policies and guidelines contained in this report. After appropriate review and modification where necessary by fort officials and the Corps of Engineers the theme policies should be formally adopted as part of the Fort Lewis Plan.

Following this review is an analysis achieve an installation design theme Before outlining ways to incorporate automatically lead installations to review how in general terms how the fort's master plan it is useful to of why the present system does not however there is hope. There are the Military Park Theme into the military planning process works. ways through the Master Plan to plan for and develop their own Despite some present problems and these are outlined at the Individual design identities. conclusion of this section.

PART 3.3 FORMULATING AND IMPLEMENTING THE MASTER PLAN

D.O.A. requires each installation to foremost as a quantitative record of ways, resemble a local community in role and Jobs that each is expected facilities and operations. Because one respect -- that of planning -it is quite different. For at the centralized and a top-down process funds, and the job to be done, the national level by Congress and the receiving its directives and funds from the top, in turn issues a set to fulfill. To determine the best provide information about existing nstallations like Fort Lewis, the material and physical resources on accounting-oriented one. Thus for Installations, defining the basic the primary concern at the top is Although Fort Lewis may, in many Department of the Army (D.O.A.), fit between existing resources, requirements established at the fort, planning is very much a resources the planning process of mission statements for its for effective distribution of Master Plan serves first and stemming from objectives and Department of Defense. The explained thus far is an

hand and those anticipated or required in the near future.

The Master Plan for the installation next can begin. In the case of Fort phase, that is, inventory, planning, policy. In practice however, changes are also made to the plan on is a series of documents in graphic, plan. Once complete the Master Plan years to reflect changes in funding, through a three phase process under civilian consultants to prepare the Planner and the Seattle District of requirements are adjusted or as new Corps, as manager of Army planning the direction of the fort's Master approved by the D.O.A. before the the Army Corps of Engineers. The Lewis, the plan is prepared under planned for the future. Although and construction, contracts with shows existing development, land uses and facilities and those facilities are funded and built. fechnology and national military narrative and tabular form that years, it is updated every five is developed at the local level the conditions outlined above. development for a period of 20 the plan is intended to guide and final submittal, must be an annual basis as mission

In this context of frequent change the Master Plan serves more as a general guide for decisions affecting the fort than as a fixed picture of the ideal future. The Military Park Theme objectives and related policies should be adopted

constants in this overall guidance process. With these as part of the stable framework, the installation can continue to accommodate its mission-achieving programs while building a stronger physical unity and identity.

nstallation Planning Board

Throughout the development of the Master Plan an Installation Planning Board meets to discuss content and progress. The Board is made up of the commander of the fort, millitary officers and often officials from surrounding communities. The Board's role in the planning process is influenced by ten general D.O.A. policies that they must take into account in developing the plan:

- spirit and the intent of Federal legislation, including the National Environmental Policy Act (NEPA), and initiatives for energy conservation and wise use of cultural resources.
- Existing facilities must be utilized before new construction is to be considered.
- Plans for new development must consider the location, capacities, and economic life of existing facilities.
- 4. The permanent type construction will only be approved on installations as part of the

long-range requirements of the Army.

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- 5. The use of standard plans for facilities must be used as provided by the D.O.A.
- 6. The use of efficient means in planning services and utilities for new developments is required.
- 7. The master plan should include all plans for new construction regardless of amount of funds required, their availability, and their source.
- 8. The plan must coordinate the general site plan with the requirements for mobilization.
- 9. The removal of WW i temporary buildings, which are in 'prime locations' will be removed only to allow for the long-term development plans of the installation.
- 10. WW II temporary buildings are to be retained only to house the mobilization components and only if they can be used to meet this need through a one-time expenditure of money for rehabilitation.

 (Paraphrased from Army Regulation #210-20 "Waster Planning for Army installations", p. 1-5.)

These policies emphasize considerations of cost and efficiency. They may also be interpreted as a call for a conservative mode of planning, one that seeks to reinforce and build

upon the existing fabric and conditions of an installation. This of course is one of the fundamental objectives of the Military Park Theme.

PART 3.4 THE THEME AND THE MASTER PLAN: AN ANALYSIS

As outlined above, planning for Fort receiving end of this process and as facility and then carried out at the The result of this process too often decisions are made about the fort's physical development and operations at a centralized planning office in are concerned with putting the Part facility into operation beacause of a national objective. They are not s counterproductive to achieving a and livability of the installation. individual identity on our military applied equally throughout the United States. The fort is at the The federal officials greater degree of design unity and a result its environment too often quantitative material that can be It is a process based impact such a facility might have upon the overall visual character -- In fact cannot be -- directly reflects it. The scenario often Lewis is a process wherein many decision is made to build a new goes like this: a federal-level upon established standards and concerned with the qualitative installations. fort level. the D.O.A.

Centralized decision-making will remain a necessary fact of life in

military planning. Nevertheless, within the current master planning process there are opportunities for more design self-determination at the installation level. Fort Lewis should sieze upon these.

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PART 3.5 HOW TO IMPLEMENT THE DESIGN THEME

Proposition of the proposition o

Implementation of the Military Park
Theme at Fort Lewis will require the
coordinated effort of three major
agencies — the Fort Lewis Master
Planning Branch, the Seattle
District Office of the Corps of
Engineers and the installation
Planning Board.

Fort Lewis Master Planning Branch

and incorporated into the Fort Lewis design and environmental improvement objectives and policies are adopted When the Military Park theme goals, Branch's role in initiating special responsible for carrying them out. Implementation through the Master Planning Branch should take two through the Master Planning review process. The other lies with the significant level of urban design fort-wide maintenance activities. Planner will be, by definition, One has to do with the Master Plan, the fort's Master Influence that can be exerted responsibility for overseeing projects on the base and its

1. Master Plan Review as a Tool for the Theme

Although some of the decision-making

also set the long range image of the represents a vision that needs to be and preserving existing historic and provide the Branch with a basis upon decisions have as positive an impact guidelines contained in this report, specific policies and guidelines may the fort. For example, through the for large scale projects is done at planning, maintaining and improving the landscaping qualities, building upon existing architectural styles. as possible on the visual theme of higher levels, there are several valid ways at the local fort level policies, the Branch can influence design concerns, for reviewing all Master Planning Branch in all its be modified over time, the theme development projects, large and integral part of the Fort Lewis design objectives and policies, in addition to the more general nurtured and championed by the should also be the watchdog of small, for achieving good site environment. The design theme which to conduct its reviews. augmented by the design theme fort and although some of the natural features that are an project location decisions. to see that all development Master Plan review process, řork.

 The Master Plan Branch as initiator and Overseer of Project Maintenance The Master Planning Branch (MPB), as mentioned earlier, serves a dual

maintenance in order to preserve the Theme implementation naintenance duties take the form of mportant tools in the manipulation strict improvements in landscaping, role: it initiates fortwide design groups are in charge of monitoring aesthetic quality of the landscape priorities for the functional and maintenance of the fort is one of have a significant impact on the of design elements which lead to improved coherency in the fort's building upkeep, infrastructure visual image of the fort. The present, different maintenance as it applies to the everyday They are Their decision making power to set achieving the design goals. the most important tools in projects and sees to their their own activities. physical appearance. works and signage. fort's image.

The MPB should initiate maintenance priorities to eliminate the lack of cohesion in the setting of priorities and allow for a more consistent treatment of both functional and aesthetic considerations.

The Seattle District Corps of Engineers

The primary role served by the Seattle District Corps of Engineers is that of a project manager of all on-fort developments. Crucial to this role is its place as the intermediary between the fort itself

and private contractors. This entails defining the scope of work for such projects and supplying whatever technical information is needed in the preparation and completion of work. Federal government standards for military construction are issued through the Corps's office. Once this information has been disseminated, it's the Corps's further responsibility to ensure compliance with regulations pertaining to the consultant's proposal.

CONSTRUCTION CONTROL CONTROL CONTROL

Besides the Corps's responsibility to monitor federal standard compliance, it also makes recommendations for approval of the project by the fort authority. Furthermore, it supervises the project within its fiscal constraints.

Because the Corps's staff is comprised of non-fort personnel, it is necessary that they clearly understand and seek to achieve the fort's theme goals and design objectives. Through this understanding the Corps will be able to ensure that the theme be incorporated into project designs. As a further safeguard of theme integrity, this review process can guarantee compliance with the theme and provide the fort with recommendations concerning the

Installation Planning Board

The Installation Planning Board,

project implementation. The board's A disadvantage is act as a proponent on behalf of the meetings, once every 6 months after So few meetings limit the amount of second opportunity, besides through role for all personnel assigned to the MPB, for the fort commander to Input the board can provide content of recommendations sent to them for approval necessary before the Master Plan has been approved. composition and for their advocacy participation is important due to the fort. The board is also the ranking military officials, is responsible for evaluating the nade up of the fort's highest the infrequency of the board their almost all-military n the planning process. fort's interests. formal

implicit to such a proposal that the solutions to functional problems, an mage that such a theme implies will creating a more livable environment for future users. It is therefore process, the responsibility of the implications of such an intangible board is great, and decisions must board deliberate carefully before As the final step in the planning sensitivity for the environmental be carefully weighed. To assist process, the board must clearly quality as is a fortwide design understand the goals and design awareness of the desired visual be critical to the success of objectives. This requires a them in this decision-making Unlike the technical theme.

regarding the fort's interests in maintaining a character consistent with that of the Pacific Northwest.

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SECTION 4 SPECIAL PROJECTS

4.1 Introduction79	4.2 Jackson Ave. Troop Facility80	4.3 Community Center Expansion87	4.4 I-Corps Headquarters93	4.5 Fort Entry
4.1 Introduction	4.2 Jackson Ave. Troop	4.3 Community Center E	4.4 1-Corps Headquarte	4.5 Fort Entry

PROJECTS SPECIAI PART 4.1

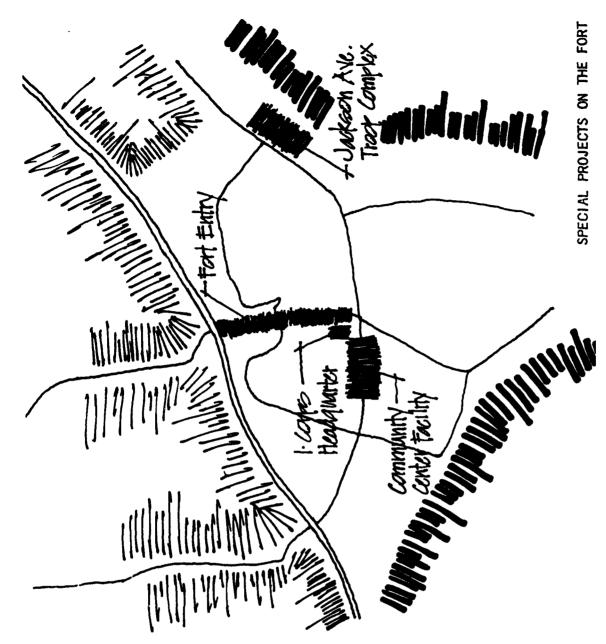
Introduction

This section of the report addresses programmed by the Army for action in the fort's Military Park Theme right opportunities to begin to establish the near future and afford unique specific projects which have been These projects are: DWBY.

- 1. Jackson Ave. Troop Complex
- Community Facilities Expansion
 The Main Entrance 2. I Corps Headquarter Complex

occasional, isolated structures have large scale development has occurred Because of been built. In the near future the implementation of the Military Park Ihroughout the history of the fort, fort's visual image and the quality fort will be experiencing another their size, special projects will have a significant impact on the Theme design guidelines in these of life for the residents. The during very brief construction periods. Between these major projects will be especially construction periods, only najor construction boom. mportant.

The guidelines for Special Projects are more detailed and site specific than the design guidelines.



rationale and criteria for assisting in design development and evaluation of the project as it relates to the are intended to provide the theme.

PART 4.2 JACKSON AVE. TROOP FACILITY COMPLEX (JATFC)

Indroduction

The JATFC is a proposed troop complex which will house approximately 15,000 enlisted personnel when completed. It is located in an undeveloped section of the fort on Jackson Ave.

The facility includes barracks, dining facilites, a branch exchange, gymnasium, a recreation center, a chapel, four batalion headquarters with classrooms, a brigade headquarters, and a motorpool with maintenance facilities. The complex also includes numerous volleyball and basketball courts, a field for softball and football and parking facilites for the personnel.

The complex is to be developed over a 20 year time frame. Because of this, it is important to adopt a site plan which will guide the development over the entire time period. This action will ensure that the troop complex will evolve appropriate military character according to the Military Park Theme.

The troop complex gives the fort the opportunity to express traditional

military character for troop housing areas. It is important that the military personnel establish a sense of home in the complex as well as have a feeling of being a part of a unit within the military establishment. By using an approach consistent with many of the existing troop housing areas, the new complex will have a stronger visual and social connection to the rest of the fort, thus helping to unify the

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contract procession properties contract

Design Objectives

- Create a building layout that identifies the facility as a troop complex.
- Utilize traditional hierarchical relationships to site buildings around a symbolic center.
- Arrange buildings on a site to preserve natural vegetation.

Buildings should be located so as to express their role within the whole complex. The site should be designed as a composition where through the use of contrast, rhythm and hierarchy, buildings express relationships, one to another. In addition, the natural features on the site should be incorporated into the overall design.

Building Layout Guidelines

A symbolic open space should be used in the site plan as an element

around which development occurs. In addition this spatial device will help to convey the relationship of the new area with the older Garrison Area design character. The open space should fit with the natural topography and take advantage of opportunities to link with surrounding natural features. It should be large enough for most buildings to front, giving the complex a "front yard".

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Semi-private open spaces for troop formation should be created through the arrangement of barracks buildings.

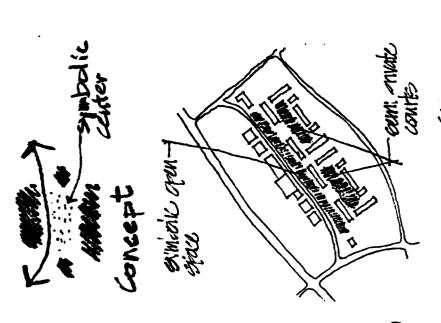
Buildings should be laid out according to the following principles:

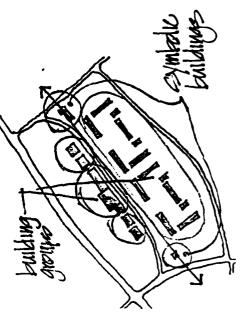
Piace symbolic buildings, such as brigade and group headquarters and the chapel, on significant or prominent sites in their own setting and distinct from service and barracks buildings.

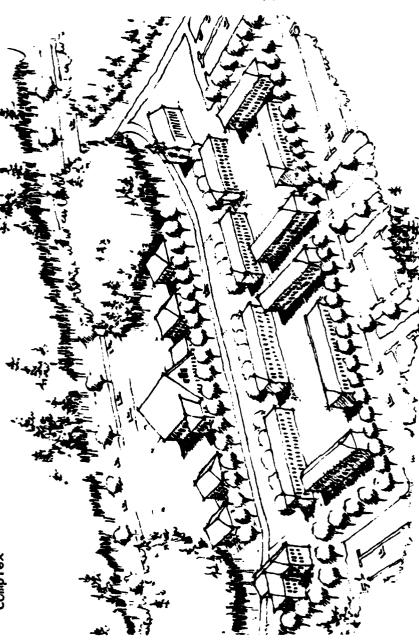
Cluster service buildings (the gym, exchange, group dining and recreation center, and battalion headquarters) together along one edge of the symbolic open space.

Group barracks buildings and arrange them to create formal and informal sides with the formal side facing the symbolic open space.

Condense building layouts to preserve natural pockets of vegetation.







Architectural Character Objectives

Develop an identifiable architectural character for the complex that expresses a relationship to the historic precedent established in the Garrison Area.

Create a visual hierarchy of buildings through the use of form,

material and architectural detail.

different building types together by A final style emerges narrow range of rules characterizes pleasing well-disciplined complex. This variation within a naterials and details combined in esponses but has rules governing design easily recognizable in the A common architectural character the Garrison Area and creates a architectural design rules tie then the limits of variety are using certain building forms, allows for a range of design finished buildings. These arious ways. epesodx.

Architectural Character Guidelines

Buildings planned for the JATCF are classified according to rank. These classifications are tied to building design requirements which will help to establish a visual relationship between functions.

Building Rank Classifications

Building types are listed according to rank
ANK A.... Brigade and higher ranked headquarters and religious facilities.

RANK B.... Battalion headquarters with classroom buildings.

RANK C.... Barracks

RANK D.... Dining facilities, gymnasiums, entertainment, and exchange buildings.

A SECTION CONTRACTOR

RANK E.... Warehouses and maintenance shops.

Rank A buildings should have their first floor raised above grade or, if topography permits, located on a bill.

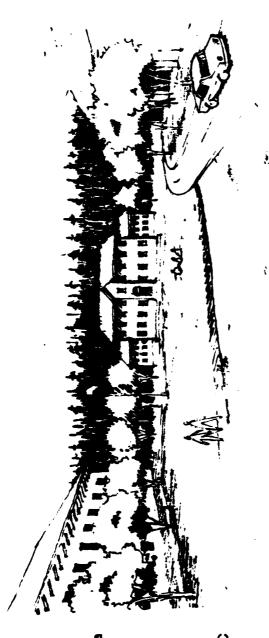
Rank A and B buildings should have a formal facade. It should be either well-balanced or symmetrical and contain a front entry. That entry should be signaled with a covered "porch" of prominent scale that projects from the facade.

Major facade area of Rank A,B, and C buildings should be sheathed in brick

Major floor plan areas of Rank A,B and C buildings should be covered by a pitched roof of either gable or hip form. Minor transition areas may be any form.

Muted earth tone colors should be used for the facade and the roof materials of Rank B,C and D buildings. White or contrasting values and chromas should be used for accents and decoration.

Rank D buildings should have recessed entries with prominent openings in the facade.



View of the command building for the proposed troop complex

Rank E buildings should have flush entries with flat awnings hung from their facades for weather protection.

Concrete, concrete block, metal or wood should be used in major facade areas for Rank E buildings.

							mank & control		MERRINE POSSIBIL Alternative
intent/Guideline	distinguish building rank	distinguish building rank	link building character	link building character	link building character	distinguish building rank	distinguish building rank	distinguish building rank	Drivato Ha
Rank Requirement Schedule Rank Guideline	1. raised building base	2. formal facade and entry	3. brick fecade material	4. pitched roof form	5. earth tone colors	6. recessed entries	7. flush entries with canopies	8. other facade materials	Tions de la constitución de la c
Rank Requires	<	8	ABCD	ABCD	BCDE	ပ	۵	w	though the state of the state o

Landscape Design Objective

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Preserve the existing natural landscape to enhance the aesthetic qualities of the development and maintain the fort's locational identity with the Pacific Northwest.

it emphasizes the symbolic natural elements should be continued elationship of natural elements to character. This traditional use of the natural landscape to shape and views of both Mt. Rainier and the surrounding evergreen forest give the fort its unique and endearing Use existing opportunities within orient development. The Garrison military. The use of spectacular natural features to enhance its Area is a good example of using in the development of new troop the structure and order of the complexes. setting.

Landscape Design Guidelines

Preserve large groups of mature trees on the site by clustering development in selected areas.

Preserve mature vegetation on the boundaries of the site creating an edge with the existing vegetation to define the built areas of the complex.

Waintain and enhance the views from the site to the mountains or other important features by preserving and selectively thinning vegetation.

Use the natural topography to determine the location of buildings and open spaces. Significant buildings of the complex should be at a higher elevation, if possible, to create a symbolic hierarchy of order.

Open Spaces Guidelines

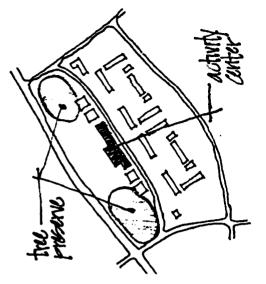
The landscaping of the symbolic open space should be formal and repetitious to achieve a ceremonial character.

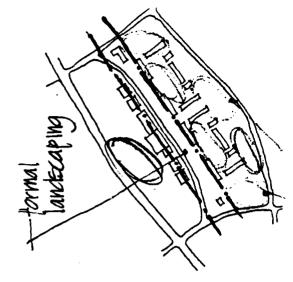
The formal open space should have the highest degree of maintenance to convey the symbolic quality of the space. It is important that this is the only space to receive this type of special treatment.

Open Spaces (Informal)
The landscaping in the informal open spaces should provide a casual atmosphere for group gathering or for informal military reviews.

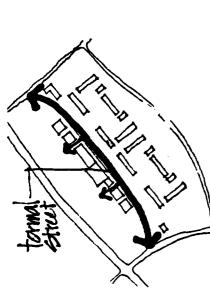
General Landscaping
The landscaping at a complex should
link the fort to the region.
Selection of new plant material
should be consistent with native
Pacific Northwest vegetation.

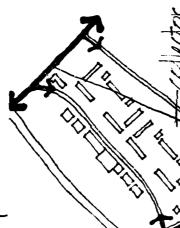
The view from the road should be considered in the landscaping layout. A series of selective views can be developed to showcase elements of the military setting.



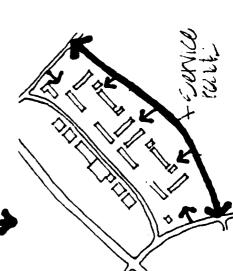


informal landecapition









Circulation Design Objective

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Provide a clear sense of orientation complex by developing a hierarchy of at the entries and within the roadways.

improve the visual quality to the complex by the placement of roads and parking lots.

Develop a complete pedestrian circulation system.

Circulation Design Guidelines

This hierarchy of streets will use three Provide a hierarchy in the street system for the troop complex. catagories:

- of the complex and should be located communicate the ceremonial character next to the symbolic open space with should also have a formal entrance buildings lining one side. a) The formal street is to and be ilned by trees.
- primary route to access the complex streetscape should be natural and b) The collector street is the from the arterlai road. The informal.
- c) The service roads are to provide should be behind or hidden in the delivery access to the buildings. access to the parking areas and The parking and delivery areas complex.

Limited on-street parking should be behind the structures and visually permitted for short-term stops on the formal and collector streets. formal and the collector streets. parking areas should be located screened by vegetation from the arge lots should be avoided.

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Pedestrian System Guidelines

This network of paths should also connect The complex should be linked by continuous pedestrian network. with a fort- wide pedestrian network.

formal pedestrian pathway should be nformal pedestrian pathways should could be of a special material such the parking areas. They should be carefully laid out and appropriate ink areas around the barracks and used in the symbolic area of the Jevelop a hierarchy of paths to characteristics of the complex. as brick or exposed aggregrate. complex. The path in this area in scale for the traffic. display the different

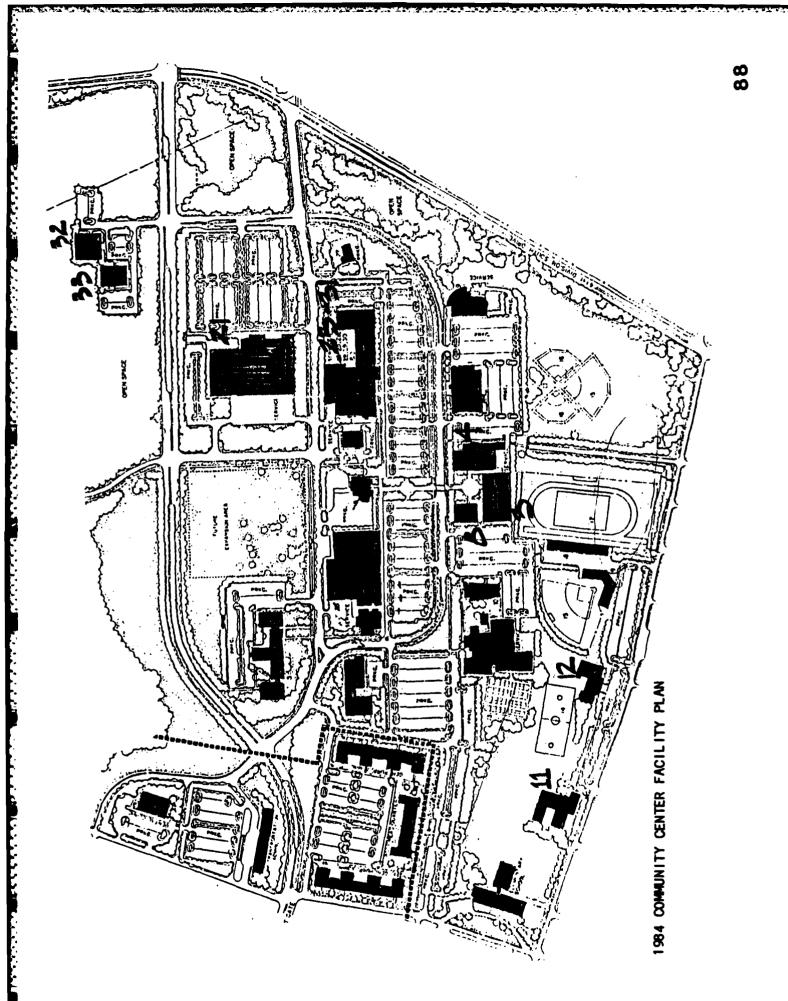
PART 4.3 COMMUNITY CENTER FACILITY

ntroduction

Center Facility is a focal point for Community Center Facility will have commercial activities, it should be calls for the construction of a new the whole area, and the relocation deviced with special attention to commissary. Because the Community The fiscal year 1984 plan for the traffic, extensive landscaping of the fort and provides social and Avenue, the rerouting of through presence of the fort. The plan a major impact on the physical commissary north of Pendieton of service east of the old pedestrian needs. The 1984 plan addresses the above issues in positive ways. The bypass road makes the center safer and more pleasant for the pedestrian. Services are clustered and aligned south of Pendleton Avenue which shortens walking distances. But there are some possibilitites for enhancing the social use of the CCF that should be addressed in future development.



COMMUNITY CENTER FACILITY



Building Layout Guidelines

Place buildings to reinforce street edges and continue established patterns.

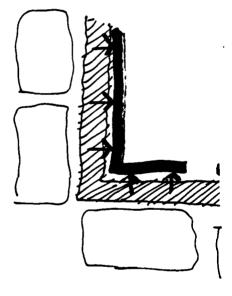
Locate buildings within the CCF rather than open new ground which violates open spaces.

In concurrence with the general open space policy to reconnect the review field with Gray Airfleld prairie, buildings if and 12 should be located south of Bitar Avenur If at all feasible.

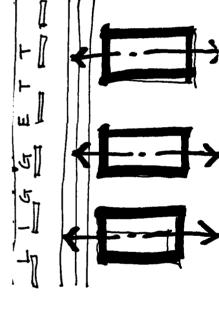
Building 3 should be perpendicular to Liggett Avenue and brought north to the street edge. This will keep the pattern of building mass and volds more consistent along the street's southern boundary.

The east face of buildings 25, 26, 28, 29, 30, and 31 and the new commissary should be moved further east. This alignment will enable a pedestrian connection to be made between them and across Pendleton Avenue.

Buildings 32 and 33 should be located within the complex. Their placement can define a street edge and help complete the fabric of the center. Their present location should be left undeveloped until all open ground within the developed areas is used up.



Puli parking away from building faces to allow for a pedestrian walk



Maintain the established pattern of building footprints oriented perpendicular to Liggett Avenue

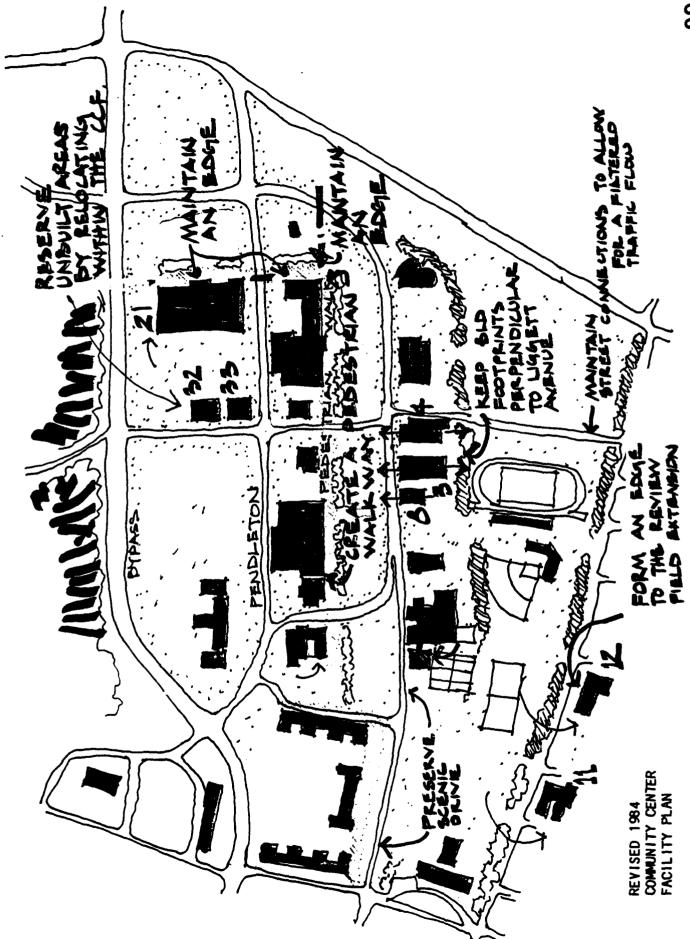
Circulation Design Objective

- Remove through traffic from CCF.
 Maintain important circulation links with the rest of the fort.
 Improve the pedestrian amenities
 - in the CCF.
 improve the possibilities for social interaction in the CCF.

Circulation Design Guidelines

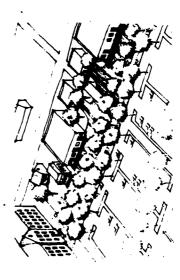
The Pendleton Avenue bypass will reduce the amount of through traffic in the CCF making it safer and more pedestrian-oriented. The bypass should be treated as an arterial and designed with a median landscaped according to median landscaping guidelines.

the CCF and the Garrison Area should through the fort. Recently, parking reduce through traffic. This road lots have been located on it which beauty. To correct the visual and functional problems, the 1986 plan work well, but the connection from not be severed. Traffic should be Liggett Avenue is cut off between Pendleton Bypass Road. That will the CCF and the Garrison Area to scenic and historic areas of the dignitaries and guests the most envisions a loop road from the vas intended as a scenic drive detracts from the surrounding restricted but the connection maintained, to show visiting



Walks in the CCF should be developed to provide confortable and convenient pedestrian movement between facilities. At intersections with local roads in the CCF the pedestrian should have the right-of-way. Drivers should be encouraged to park their vehicles to take advantage of the pedestrian amenities.

A wide, tree-shaded walk, screened with hedges from the parking area should be developed. This would greatly enhance the user experience of the CCF and provide a center for off-duty activity. The walk should have places to sit and the building facades should have windows opening onto it. It should connect the new Commissary to the General Purpose Administration Building. The road along its southern edge should be reserved for buses and taxis. Bus serivce from one end to the other should be free.



Aerial view of proposed pedestrian

Landscape Design Objective

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To enhance the character of the CCF To integrate the CCF into the fort's design.

Landscape Design Guidelines

Space trees and bushes every three parking isles to break up the large open lots.

Continue the evergreen edge of the Review Field into the Review Field extension.

Plant evergreen trees north of the CCF.

Plant deciduous trees along the street edge to enhance the streetscape.

Define a pedestrian walk on the south side of the PX, Bank, Credit Union and Commissary with a row of deciduous trees between the parking area and the walk.

Architectural Character Objectives

Open up building facades to the street level.

Provide weather protection for pedestrians.

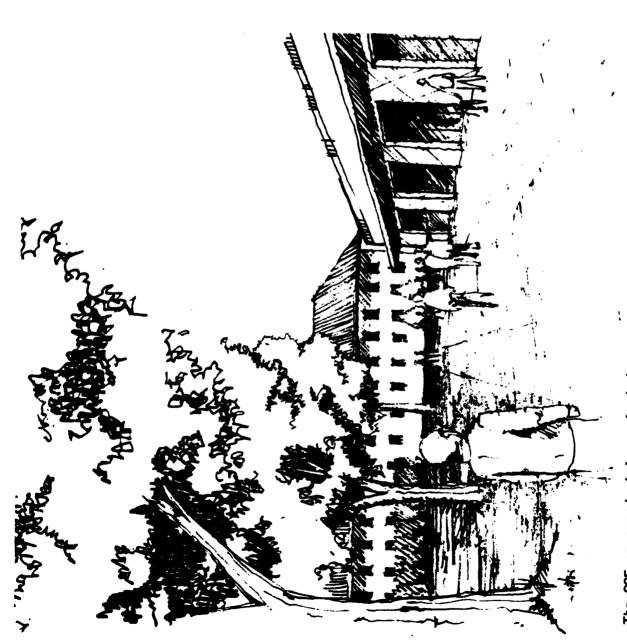
Architectural Character Guidelines

New commercial facilities should promote increased interaction with the street. Glass and doors should make up the major proportion of their street front at ground level. Older buildings should be remodelled.

Awnings should be hung from building facades to provide weather protection for pedestrians and to signal that these buildings are for commercial use.

The buildings, including the new commissary, should have mixed uses at street level. The display windows and entries should face an outdoor sidewalk.

If possible, new buildings should be constructed with columns and foundations sized to carry extra floors to accommodate facility expansion.



The CCF as a pedestrian oriented place

PART 4.4 I. CORPS HEADQUARTERS

introduction

The Army is currently proposing the development of a new headquarters complex for 1-Corps. This development presents the fort with the opportunity to build the complex according to the goals and design objectives of the Military Park Theme.

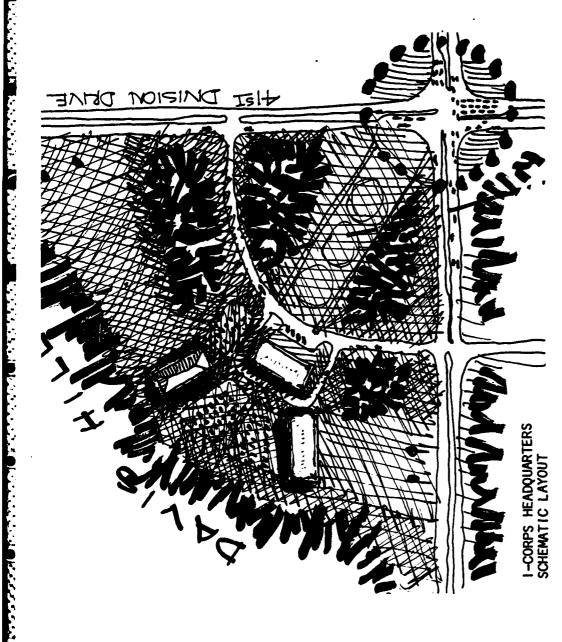
This recognized identity The complex, because of its image as can provide a link to the dispersed The I-Corps Headquarters represents a very special and honored place at decision-making center for military as a central place of command will troop areas, unifying them into a a center of important activities, operations at Fort Lewis and the enhance the image, promote group dentity, and create a sense of comprehensible military system. rest of the I-Corps command the fort. It will be the cohesion on the fort. authority.

Design Objectives

The i-Corps Headquarters should be a focal point to display the military traditions of hierarchy, formality and command. This focal point should be at the symbolic center of the fort. The Headquarters complex



has always been a symbol of command and a center for the decision-makers. This prominence should be reflected in the location and site layout of the complex.



Building Layout Guidelines

The I-Corps Headquarters complex should be oriented towards Mt. Rainier with the front facade of the building and its formal entrance facing the mountain to provide a symbolic link between the two.

The building layout should provide three formal facades and one informal service or work entrance side.

In front of the building there should be a formal reception area for ceremonial reviews.

A formal entrance to the building should be provided as the Command Group's entrance.

The main parking lots should not be placed in the front formal entrance to the building. Parking should be placed in the service or work side of the building.

A helicopter pad should be located in close proximity to the formal reception area and the formal main entrance of the building.

Architectural Character Objectives

The architectural character of the 1-Corps Headquarters building should convey a strong visual image that reflects its significance as an important building.

The complex should provide a visual link between the different architectural styles on the fort.

Architectural Character Guidelines

The building should be a multi-story building of significant height. A

single story building should be avoided.

The building's first floor should be raised above grade on a definite base.

The primary material for the facades of the building should be brick. Three formal brick facades should be visible from the street.

The building's front facade should be well balanced or symmetrical and contain a formal entry. The formal entry should have a prominently recessed "entry".

The two other formal facades should serve as the entry for the Command Group and visiting personnel. The entry should be covered at a less formal character than the main formal entry.

The service facade of the building should be of a lesser detail to help emphasize the formal facades of the building.

The major floor plan areas of the building should be covered by a pitched roof (either gable or hip form). Minor transition areas may be any form.

Landscape Design Objective

ACCURAGE WASCASSE DEVICES BUILDING BUIL

PRODUCE SANCORE SECURIOR DESCRIPTION

Preserve the existing natural landscape to enhance the symbolic relationship of the natural elements. The landscaping at the I-Corps Headquarters should help to communicate the significance of the complex.

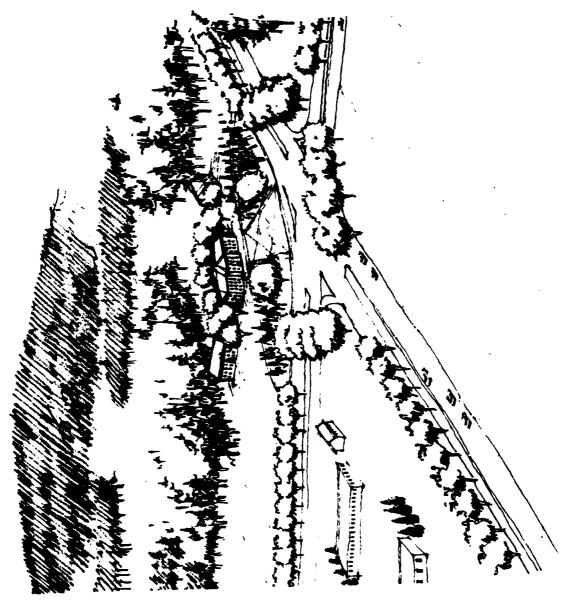
An environment characterized by order, discipline and hierarchy of the landscaped elements should be emphasized by the treatment of the strategic placement of plantings.

The landscaping should communicate the hierarchical order of formal behavior expected within the different spaces of the complex.

Landscape Design Guidelines

Preserve large groups of mature trees on the site.

Orient the site to maintain and enhance the views from the site to Mt. Rainler and other significant features of the fort.



Aerial view of proposed 1-Corps Headquarters

Use the natural topography to determine the location of the building and open spaces.

The County of th

Create a formal open space to enhance the formal entrance to the building. This space is to be used for ceremonial receptions and should emphasize the traditional military spirit of structure and order.

The formal open space should have the highest degree of maintenance to convey the symbolic quality of the space.

Selection of new plant material should be consistent with native Pacific Northwest vegetation.

The plant selection for the Headquarters Complex should perform four general functions:

a. provide visual quality to the complex;

- b. become a view framing element;
- c. define the behavioral quality;
- d. visually link the complex to the rest of the fort.

The landscaping in formal areas should be symmetrical or formally balanced in the number, size and type of trees which are placed on each side of the formal pathway to the entrance of the building.

The landscaping of the informal areas should be a natural arrangement of materials. The planting should be of a natural set which will require low maintenance.

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STATE SEASONS

Circulation Design Objective

Enhance the visibility of the l-Corps Headquarters and create a sense of orientation of the complex to the fort.

Develop a hierarchy of entries in the complex to provide a sense of arrival at this important place on the fort.

Develop a pedestrian circulation system to insure safe access for pedestrians.

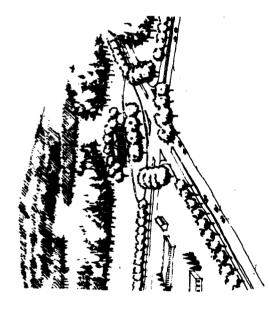
Parking areas should be distinguished according to rank and purpose. General parking areas should be located behind the structure and visually screened by vegetation from formal open spaces.

Pedestrian System Guidelines

The I-Corps Headquarters should be linked to a continuous fort-wide pedestrian system.

Develop a hierarchy of pedestrian paths to display the different formal characteristics of the complex.

a. A formal path should be from the drop off point on the street to the



formal entrance of the building. Ishould be of special material such as brick or exposed aggregate.

b. An informal pathway system should link the different parking areas to the building. The material should be permanent and provide a contrast with the formal pathway.

PART 4.5 FORT ENTRY

Introduction

thought of as a path and should have visible and well-used element on the This can be accomplished by ordering enhance the fort's image. The main the elements of the entry gate into entry by emphasizing the transition gate should communicate a sense of combined with symbolic elements of a sequence. This sequence can be from outside the fort to inside. formal and dignified appearance. The main post entry is the most a beginning and an end, with a planting, signage and lighting the gate can most effectively fort, much like a front door. is where the scheme of formal

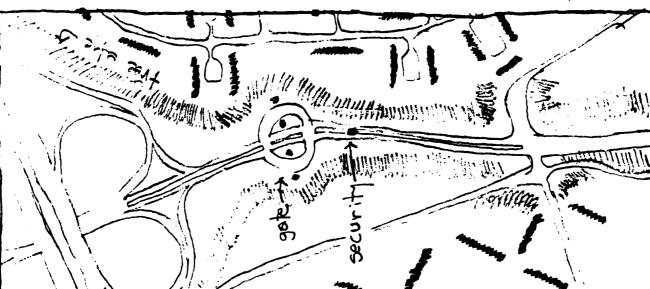
The main entry, as it exists today, has an informal character.

Automobiles and trucks travel quickly by the insignificant guard post and can only get a glimpse of the old gate on the right. Once past these symbols of entry the road itself is informal, simply a strip of asphalt with no pattern or edge definition. The gas station on one side further detracts from a desirable first impression.

To make the main gate project a military presence and create a sense of entry, the following guidelines should be followed.



AERIAL VIEW OF PROPOSED FORT MAIN GATE



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MAIN GATE PLAN

Layout Guidelines

Arrange the entry elements to form a strong first impression and which will function smoothly, presenting a formal military character.

Balance the old gate with a vertical element on the left. This vertical element should be an existing prominent military monument. The 91st infantry Division monument could be relocated to this location at the fort's entry. The person entering the fort should see a gate made of some vertical elements within an enclosed space. Then they should be in an exemplary military environment that is formal, well trimmed, and polished.

Maintain the visitor information center, parking and a turnaround at the historic gate for those who want to stop, take a picture and leave. Repeat this arrangement on the opposite side of the entry boulevard.

Move the guardhouse behind these elements and make it a more substantial masonry structure. It should have a canopy that covers the entryway and landscaping that compliments its importance.

Circulation Design Guidelines

Make the entry road into a formal boulevard.

Develop a landscaped median between traffic lanes. Move the intersections of 41st
Division Drive with Hillside Drive
and Quincy Avenue south to where
Colorado intersects with 41st
Division Drive. This rerouting will
remove competing visual elements and
will clarify the entry experience

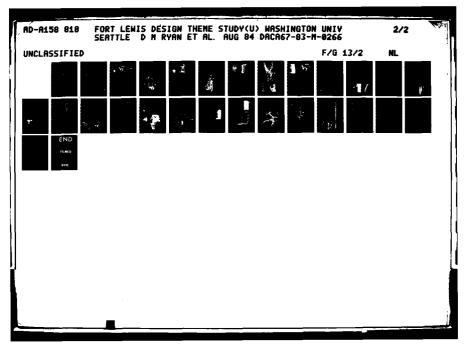
Landscape Design Guidelines

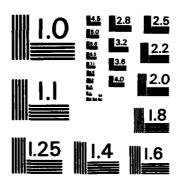
Enclose the entry area and boulevard within a defined space.

Plant evergreen trees along the road edge to provide a strong outdoor space.

Plant evergreen trees at the entry from the freeway to focus views on the entry elements, the old gate, the vertical view element and the guardhouse.

Plant a single or double row of deciduous trees at even distances along the median starting behind the guardhouse and extending to the intersection with Pendieton boulevard.





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS - 1963 - A

APPENDIX

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SUMMARY OF BACKGROUND ANALYSIS (PHASE I)

EVOLUTION OF FORM AND CHARACTER

now as when It was built fifty years activity and display. Finally, the The Military Park Theme is based on personnel and visitors as the heart discipline and order as effectively serves as a model for the theme for several reasons. Most important of the traditions and formal military these is that the Garrison Area is considered to be an attractive and historic Garrison Area. The area appropriate setting for military of the fort. This formal image, already recognized by military expresses the shared values of conveyed by the arrangement of image expressed in the fort's buildings and landscaping, is design of the Garrison Area

Since the planning and construction of the Garrison Area, a number of trends have affected the design of installations. The size of the

military has grown, training has become more complex, and the use of technology in military operations has increased.

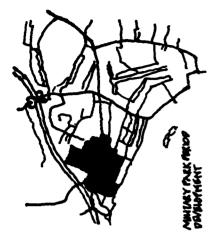
THE PROPERTY OF THE PROPERTY O

The growth and change in the military has been accompanied by a change in the planning of military bases. Rather than creating a military place distinct from civilian life, there has been a conscious effort to provide both civilian and military amenities. The resulting "theme" or image has led to a loss of clarity that the Garrison Area once manifested.

The Fort Lewis Design Theme Study, Preliminary Report, (January, 1984), described three distinct periods of development which are still evident at Fort Lewis. These are:

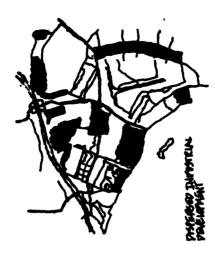
- i. The fort as a Military Park;
- 2. The fort as a Dispersed industrial Center:
- The fort as a Compus Complex;

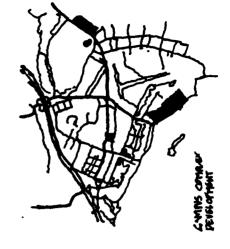
These three predominant patterns of development have resulted in a series of "character areas". This section describes the design qualities of each of the three character areas. A history of Army planning is included to show how Army procedures and changes in planning philosophy have affected the aesthetic qualities of the environment.

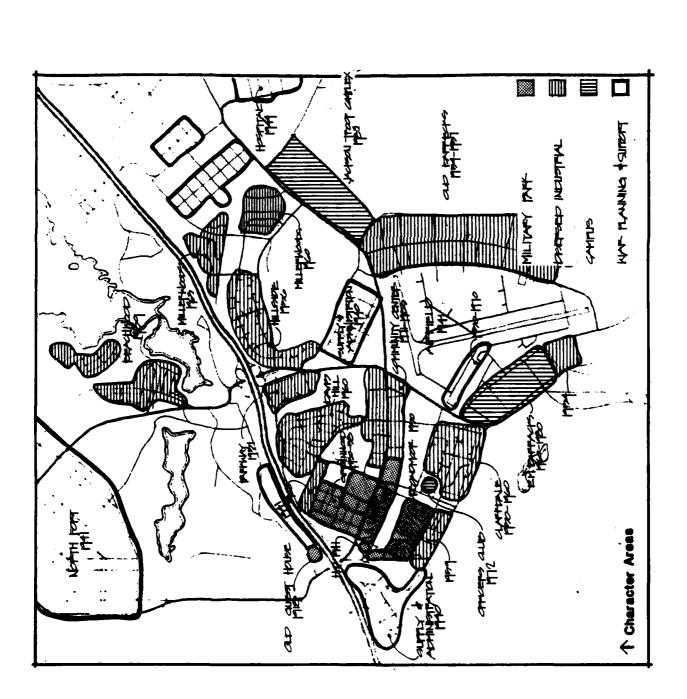


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Period 1 The Fort as a Military Park

History and Planning

develop a well-trained standing army chosen as one of the permanent sites by Congress to develop the permanent Beginning in the Camp Lewis was Housing Program of 1926, was passed from 1917 to 1919. After World War and was redesignated Fort Lewis in forts. Money was appropriated for the construction of new facilities train an emergency military force I the U.S. Government decided to uniform wooden buildings used to 1927. A major bill, the Federal Army Camp made up of a series of rather than relying on emergency Fort Lewis began as a World War 1920's, the government funded a series of permanent army bases measures and state troops for on all permanent posts. across the country. national defense.

The Army, concerned with its civic role and public image, employed two prominent landscape architects to guide the development of the permanent forts. Frederick Law Olmsted Jr. and George B. Ford

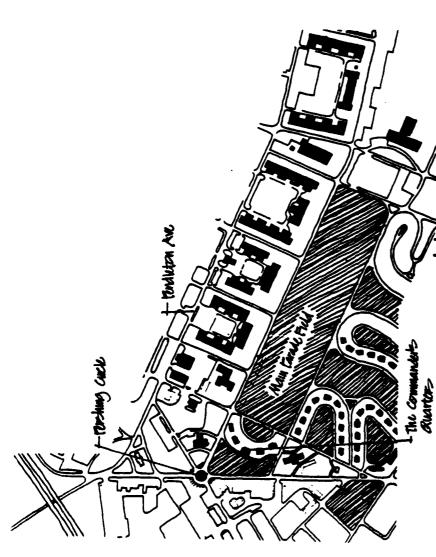
provided their services at a national level and thus had a great influence on how the new bases were developed. Olmsted and Ford were in charge of reviewing all architectural and landscape designs for the new forts. They established a method of design that enhanced the natural features of each site and specified architectural designs that were compatible with the climate, materials and traditional character of each region.

Requests for construction conjunction with the pre-estabilished were made to Congress by commanders from each installation. Commanders military to the public and that the use of a parklike setting was most Corps contributed to the design of After the initial design criteria used several arguments to justify bases by using its influence and Installations. The Officer Army discipline and honor of military was established by Oimstead and buildings in a parklike setting Ford, there was little civilian could improve the image of the expenditure of well-crafted effective in conveying the influence on the design of knowledge of army life in criteria. Service. The commanders were assisted by the fact that there were no set designs for military installations and that Congress relied on the Army to do its own financial administration and physical planning.



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Urban Design Character: The Military Park Period at Fort Lewis

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The major developments in the fort dating from 1927-1947 include the buildings and roads in the Garrison Area.

unmilitary and inferior to the order Swanberg, 1981; "Development of the These values Army Planning Process: A Case Study regions as well as an expression of developed during the late 19th and the military values of discipline, required that military bases be a Design philosophy in the 1930's From the American civilian life with its reflection of their respective commercial and individualistic lifestyle was perceived to be discipline of Army life. (See stemmed from Army attitudes of Fort Lewis", p. 25-27) early 20th centuries. order and regularity. Army's standpoint,

As a result, it was decided that bases be separate and distinct from the civilian environment. The layout of the Garrison Area and the design of each of its component parts worked to create a parklike environment for Army personnel and reflect the location of the fort in the Pacific Northwest.

Layout

The layout or site plan of the Garrison Area implies unity through a single geometric composition. The building arrangement creates a sense of identity among groups of barracks, housing, and community buildings. A symbolic open space creates a common area for displays and recreation, but most importantly it serves as a symbolic center for the fort.

Barracks

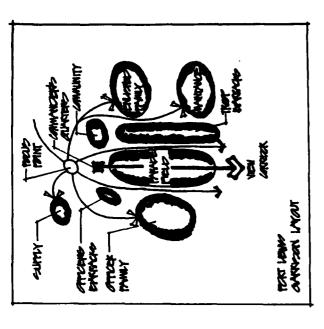
Informal sides provides a semipublic roughly to the size of each training Their formal sides constructed at different times, the area for troop formation. Although barracks reflect a similar building massing, color, details, and style. style in their forms, materials, The arrangment and size of each enclosure formed by building's barracks building corresponds All barracks have formal and parade field. The unit and contribute to unit informal sides. face the dentity

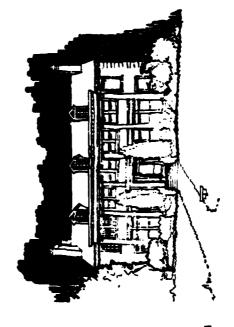
Officer Family Housing

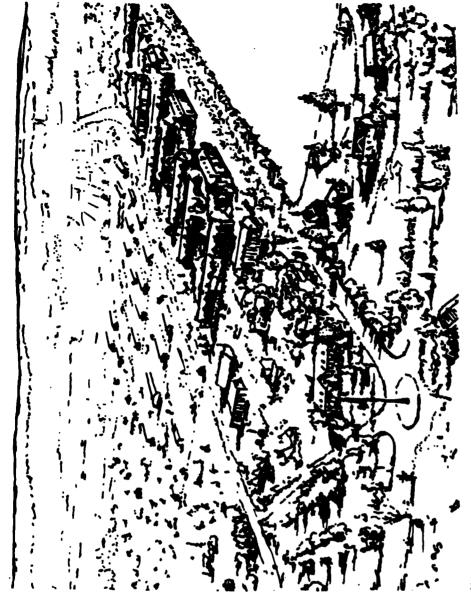
parallel arrangement of barracks and states that officers and troops make officer's housing on opposite sides detail and house size was used as a equal contributions to the military purpose of the fort. Architectural means of distinguishing the rank of provides a sense of separation and adjacent to the parade fleid and of the parade fleid symbolically ayout helped enhance a parklike officers housing. The sinuous The officers' housing area is semiprivate yards between the setting and a formal, shared privacy for its residents. streets.

Community Buildings

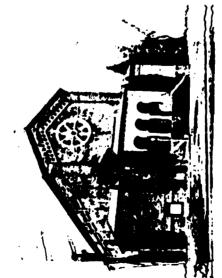
The location of the former community buildings between the officers! housing and the barracks area is considered to be common ground to officers and enlisted men. The chapel and the old headquarters building have special significance to the fort in both function and appearance. They are public buildings used by all the fort personnel and represent command from both religious leaders and military leaders.

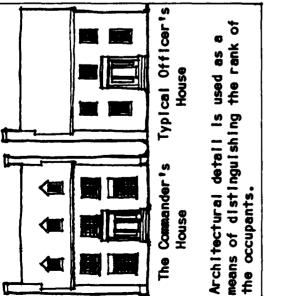






Historic development of the troop complex





Period 2 The Fort as a Dispersed Industrial Center

History and Planning

developed to prioritize the spending Army facilities with the development efficient expenditure of Army funds. statements were issued to each base, centralized process. In 1947, the stating the fort's contribution to viewed planning as a technical and War Department was replaced by the of other branches of the milltary. the national defense. Funding for coordinate the development of new history, decisions on base design men and machines was budgeted for each installation, based on these For the first time in the Army's were made by civilian planners. Their Job was to supervise the Since the 1940's, the Army has Department of Defense (DOD). A of the military budget and to master planning process was To accomplish this, mission mission statements.

Standard designs for new barracks were developed to utilize Inexpensive materials and construction techniques. During the 1950's and 1960's family housing on military bases was constructed using federally funded housing programs.

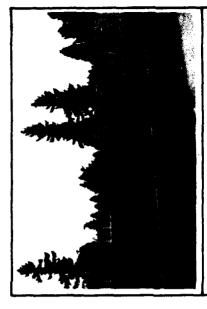
As a result, the houses were uniform in size and detail and had a civilian look, different from past military housing prototypes.

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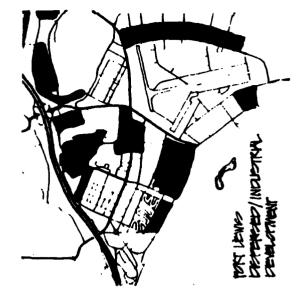
The centralized master planning process presented the Army with several drawbacks when compared with the earlier method of planning.
Without the Officer Corps's involvement in the planning process, the Army's ideals were no longer represented. Instead, each branch of the military was treated in the same fashion, with little regard for its respective identity.

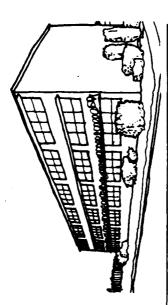
The new developments tended to be incompatible with past developments that had established a strong image at each base. Development was often monotonous, with little emphasis on landscape or layout as design considerations. The planning of facilities was influenced for the most part by federal engineers. They had little exposure to Army life or ideals and did not encourage the development of unique character or architectural style to clarify or enhance the environment of Army installations.

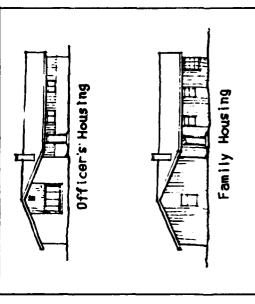
Urban Design: The Dispersed Industrial Period Between 1940 and 1973 Fort Lewis expanded greatly. The major developments during this era included two barracks areas and a series of family housing areas.



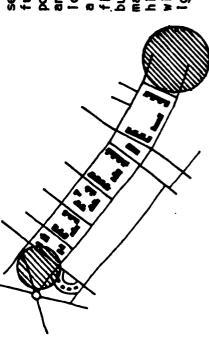
Buildings in the troop housing areas built during the industrial period (1950's) tend to look alike regardless of their respective functions as headquarters, barracks, or troop community buildings.







OLP COMMUNITY CENTER.



NEW COMMUNITY CENTER.

The design philosophy during this ere is still much in evidence today. In contrast to the military park period, connections to the site and region became less important.

Layout

New troop areas were located on undeveloped sites within the fort. They differed from one another in building character and were separate from the main post.

Housing areas for military families were at opposite ends of the fort from the troop housing and work areas. Open space was used as a void or buffer between new developments so that each could be handled administratively as a separate project.

Barracks

Barrack areas were designed to be self-contained developments and to function separately from the main post. They were uniform in architectural style and form. The idea of arranging buildings to form a symbolic open space or review fleid was dropped. Instead, building layout was treated as a mathematical problem. Links to historic patterns of site planning with a major symbolic message were ignored.

Officer/Family Housing

CASTAGORY.

Standard civilian design and suburban-type layouts were used in the family housing areas. There was little distinction made between rank through the size or detailing of houses. Natural vegetation was removed and replaced by smaller scaled plantings. Less expensive wood construction was substituted for the more permanent brick construction used earlier.

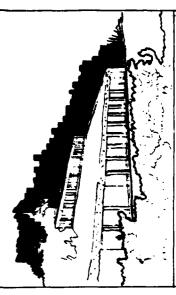
Community Buildings

The main community facility area shifted from its location on the east end of the parade field to a site east of the present post headquarters. It was expanded in size and redesigned to copy civilian strip developments. Also, new recreational facilities were added, making the community facility a major center of activity for the personnel on the fort.

TAK LEWY C'MIND COMMUNICAL CONDUCTIONS



The newest troop housing uses a modular design.



The new main branch of the library in brick.

Period 3 The Fort as a Campus Complex

Most recent fort developments have reflected a concern for maintaining a pleasant environment, resulting in the adoption of a corporate campus image. This planning philosophy is currently popular in the design of civilian corporate headquarters and college campuses.

New developments exemplifying the corporate campus design character include Barracks Area #8, the main library and the officer's club nearthe Garrison.

Layout

The placement of the library and officers club on sites so as to infill within existing developed areas shows a new attitude on the part of fort planners in their use of open space. In addition, parking around the officer's club is screened from view by the use of berms, indicating a new awareness in design for the view of buildings as seen across an open space and from the road.

Barracks

Unlike earlier industrial barracks, new buildings are assymmetrical and arranged in a cluster. The design of the buildings is modular and de-emphasizes the relationship between the building and the military unit. Open spaces between the buildings create pathways and places for informal gatherings.

Officer/Family Housing

No new family housing areas have been constructed during this latest planning stage.

Community Buildings

The officers club and new library were built with brick to make evident a visual relationship with the Garrison Area. But, in the new barracks' designs, building layout and style were not used to communicate the civic nature of these structures.

Problem and Opportunities for Design

Master Planning and Urban Design: New Concern Recently, the Army has recognized that the use of standard plans and a centralized process can detract from the visual attractiveness and livability of Army bases. For example, there has been an effort to preserve the existing cultural resources of Fort Lewis, including the buildings and landscaping in the Garrison Area.

In addition to the current preservation attitude there has been an effort to be more sensitive to the needs of Army personnel and to create a more attractive image for visitors. This concern is stated in a recent publication provided by the DOD:

"Military installations should provide efficient and pleasant physical environments conducive to attracting and retaining skilled and motivated personnel. A military installation conveys an image in terms of its design character and organization that can either be clear, logical, and attractive or cluttered, unfused and disoriented. The design, location and maintenance of individual elements such as buildings, roads, parking lots, signing, and planting affect the

quality of the visual environment. Each of these elements should be functional, attractive, and harmonious with its surroundings to create an environment that enhances the capability of installations to support their missions and foster pride in and commitment to military service." (installation Design Manual, p. 2)

From an urban design standpoint, each of the three character areas of the fort has an individual identity, with little relationship to an overall design concept. As a result, while some places on the fort have strong identities, the total image is unclear and unccordinated.

Some conditions hamper the fort's ability to achieve overall design unity. Military functions are becoming increasingly complex and require a wide range of building types and spaces. Maintaining an aesthetic consistency among these ranges is difficult to coordinate.

Planning at the fort is not an autonomous activity. Many decisions affecting the fort's visual form and character are made at the national level. The design objective for creating a military character which was important to the Army in the

past is not evident at present.
This deviation from a design ethic was in part a conscious choice to attain a diversity in the fort's environment, causing it to be more similar to the civilian world. Morimportantly, however, the lack of unity springs from sporadic and unccordinated growth over time.

constant deposition observation

There are a number of opportunities and assets on the fort that can be used to achieve a theme.

1. To begin, history need not be thought of in only "old age" terms. The fact that the visual face of the fort presents several identifiable characteristics provides a possible basis for reinforcing the fort's design identity. Finding ways to link areas together so that there is a more obvious sense of relationship between them can lead to a fort-wide theme.

2. New developments may use the design principles of the Garrison, thoughtfully reconsidered to fit today's needs, to repeat a well-known pattern of layout and use.

3. There are a number of monuments and other elements scattered throughout the fort that, if preserved and emphasized, would help reinforce the fort's image.

4. Of primary importance is the fort's past tradition in design firmly established in the Garrison Area. A policy of preservation and appropriate re-use will maintain the Garrison as the focal point of the

FORT MISSION

of communication pyramiding down to to the fort, in keeping with a long achieve this mission, an efficient to develop and maintain combat tradition of training troops. the command at the top of a lower levels of command.

commanders and government officials. This display of formal military opportunity for the fort to display traditions is also done on a dally among the combat units assigned to Division Headquarters provide the Headquarters establish a sense of prominence for Fort Lewis among other military installations. -Corps and the 9th Infantry in receptions for visiting The assignment of i-Corps the fort.

terrain for military exercises which Facilities are planned to meet the mission as a training facility has routinely use the fort's physical must closely approximate actual created a new surge of physical Recent expansion of the fort's combat conditions. New troop future needs of the assigned development. Combat troops facilities, a hospital, and expansion of the Community

> communicates the mission of the Fort as a training facility for combat-

ready troops.

This row of Army hellocopters

The primary mission of Fort Lewis is hierarchical system and direct lines readiness of military units assigned and formal organization exists, with

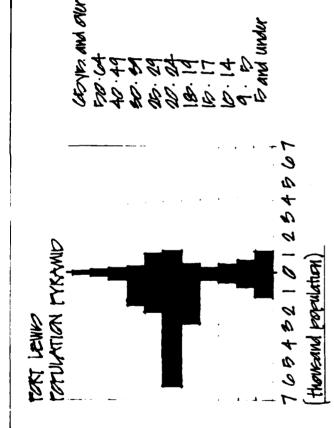
basis at the unit level to develop a its formal and ceremonial traditions sense of self-esteem and solidarity

Problem and Opportunities for Design

the home of 1-Corps Headquarters and The fort's mission provides a strong used to establish the fort's special installation. The fact that it is installations which perform fewer the 9th Infantry Division can be organization and function set it enables the fort to display its prominence as a disciplined and Incentive to establish a formal military theme. Its structure, combat-oriented missions. properly-ordered military apart from other military character.

the existing physical setting of the requirements of an expanding mission The fort's physical resources are an combat troops. These resources are managed by the fort and the Army in should be sensitive to this limit. Important asset in the training of fort. The procedures for locating military training facility is that activities will take place within The major problem created by this diminishing the fort's quality of new sites of proposed facilities the fort's physical size has not limited, however, and should be which are necessary to meet the expansion of its mission as a a manner which will allow for Increased. The Increase In continued growth, without

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Fort Lewis is more than just a military training installation. It is a vibrant community with it's own culture and identity. This culture has developed over time and is reflected in the socio-economic characteristics of the existing fort. Consequently, the military mission has defined the population and social setting of Fort Lewis.

Population characteristics indicate that the fort has a lower median age than the surrounding communities. The majority of the fort's population is young (19-24 years of age). This group of people primarily represents the enlisted personnel who have just joined the military. A high percentage of this group are single males.

The racial composition at the forthas a higher level of minorities than in the surrounding communities. In the 1970 census, racial minorities at the fort comprised approximately 16 percent of the population. By 1980 this had increased to 37 percent. In comparison, the percentage of racial minorities in Pierce County in 1970 and 1980 was about haif that of the fort.

These facts indicate that the fortaust make provisions for a more personnel with a wider background and who have needs which social structures within the surrounding communities cannot accommodate.

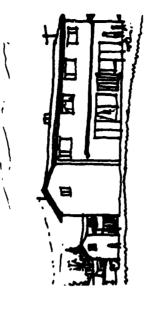
majority of the population, the fort exposure to the world. The military conscription toward an all volunteer found in civilian communities. The nilitary has always been a separate society with its own traditions and enlisted personnel who comprise the team concept gives the young person a sense of belonging and of feeling and military represent their first provides them with their first lob values. The recent movement from and training outside their family The fort also represents a chosen The military and its soldiers being part of a defined social group. To many young May of life which is unlike that force increases the feeling of a part of a group or culture. situation.

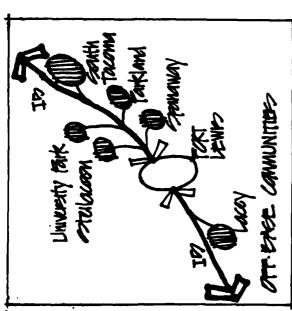
The Army endeavors to provide fair and equal treatment to all its personnel. This situation and tradition has produced a sense of loyalty and pride in the military for minorities, providing them with an opportunity and social setting not always readily available in the civilian world. Married military personnel are of increasing importance to the military establishment. This group represents to the military a stable, career-oriented persons. To

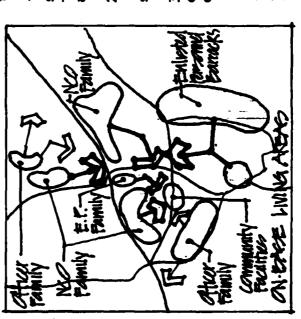
civilian life-style and the military bersonnel living on or off the fort. family is becoming more and more a families are less compelid to seek out social contact in the civilian encourage the career soldier, the However, the perceived social and is becoming greater. As the fort community for all of the military part of the military environment. nilitary has extended more social towards a closed, self-contained services to the family, and the assumes more responsibility for community. The fort is moving difference between a their social needs, military cultural

structure. This cohesion promotes a For this reason the social cohesion population. The faster individuals Individuals and their families than learn the social and cultural norms of the environment must facilitate social network which estabilishes a relatively short time at the fort. code of conduct for this transient post, the military family develops dependants who must live off-post. with the military community where strong sense of social solidarity sensitive to the special needs of The civilian community is not as the civilian setting outside the fort. An attraction to the fort his assimilation into the social the military family. Living on comfortable environment for the adjust. The fort can be a more of the fort, the quicker they extends to the personnel and The average soldier spends a

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mutual assistance is available to

its members.

Problem and Opportunities for Design

nilitary institution, not a physical A unique problem the fort faces is esidents at the Fort. It is the values of the institution for the environment must reinforce social personnel assigned to Fort Lewis. that there are so few long term ocation, which establishes the values and traditions for the Because of this, the physical the fort should address the everchanging residents. following issues: accomplish this

- sense of social cohesion to assist . Develop, through the theme, a the transient population in adjusting to military life.
- the family in the social 2. Recognize the importance of including the family structure of the fort.
- off-base population in terms of community facilities and family 3. Accommodate needs of the support programs.
- Design troop housing areas which allow individuals to identify with develop unit identity within their the fort's mission as well as military units.

PHYSICAL SETTING: LAND USE

conditions on the fort. The natural connects the land uses and provides Land uses include man-made elements activities happen. The circulation environment are created by the land and activities and their locational personnel who live and work there. provide form and dimension to the uses, the circulation system, and the natural features of the fort. a link to the regional centers of features constitute the physical The physical components which system of the fort physically self-contained town for the environment in which these Fort Lewis functions as a the Pacific Northwest.

Administrative Areas include the Post and 1-Corps Headquarters, finance, judicial and supporting administrative offices on the fort. These are work places that requires the majority of its workers to commute to the site.

Troop Housing Areas provide living quarters, dining, administrative, supply, shopping and recreational facilities for enlisted personnel. These complexes are grouped in developments dispersed around the fort. Officers who are assigned to the different units must travel to work in this area. Enlisted personnel living on or off-base in family housing areas must commute to their work assignments.

Maintenance Areas are generally located close to troop housing areas and are the primary workplaces for military personnel. Heavy pedestrian traffic is created by locating maintenance areas close to troop housing areas. There are some maintenance facilities dispersed on the fort which require workers to drive to the area.

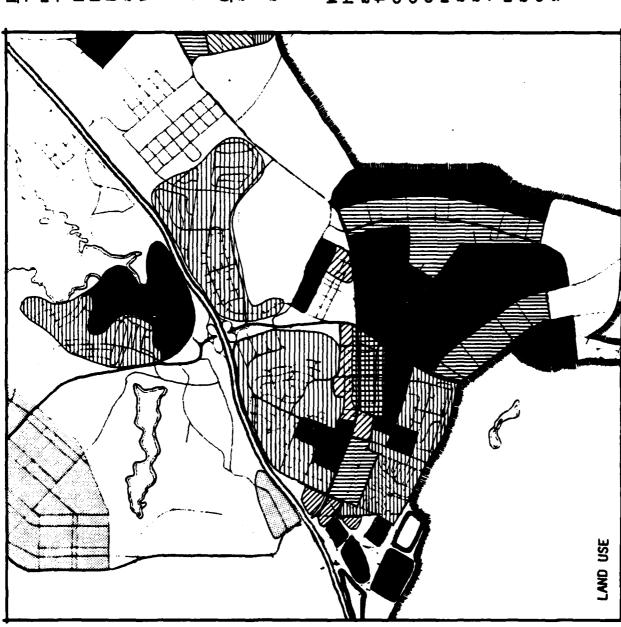
Supply Areas are found at two major locations, the northeast and southwest ends of the fort. The fort needs large areas for receiving and storing supplies. These areas are accessible from 1-5 and by railroad, and are located in convenient stopping places for vehicles and men in the training areas.

Community Facilities are concentrated on the fort, east of the Garrison Area. Facilities include the Post Commissary, Post Exchange, the main library, theatre, restaurants and shops. The facilities are areas of focus for on and off-post residents. It is the primary social mixing place on the fort.

Control of the Contro

Emily Housing Areas are clustered by military rank in isolated locations around the fort. The housing units are grouped into single-family units, attached single-family units. Each family housing area can be identified by its characteristic building type and layout.

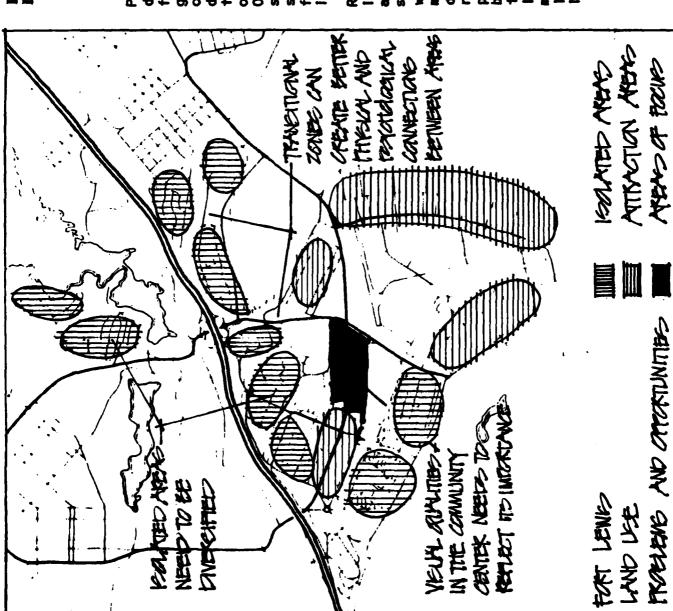
FAMILY HOUMA	SUPPLY SUPPLY	MENTENAL	NOTIVATIONINA	FESTEATION	COMMUNITY PACILITIES	TENNING APPAR	AFFIELD	MEDICAL



Recreational Areas are located throughout the fort. The major recreation area is located south of the Community Facility, providing a buffer between the Community Facility and the Clarkdale family housing area. Each troop housing area has its own recreation space with both indoor and outdoor facilities. Playgrounds are provided near family housing areas and schools.

Grey Army Field is the main military airfield for the installation. It is located at the center of the fort and includes a runway and heliports.

housing areas, the other seven areas facilities, maintenance, supply and complexes which are self-contained communities. They provide living The other troop housing areas are isolated character and purpose. They are recreational facilities and the With the exception of the troop quarters, dining, shopping and airfield - are homogeneous in are single function places. edministration, community separated by open spaces. areas - family housing, recreation facilities.



Problem and Opportunities for Design

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Problems and opportunities for design are present in each of the four types of areas on the fort. In general, the problems are the result of a system of planning and decision-making that is driven by the need for efficient organization of complex military operations. Opportunities for design within this system lie in the equally significant need to achieve a better fit between the use of the fort and its visual qualities.

Residential neighborhoods are Isolated and detached from the other areas of the fort and are relatively sterile within. The uniformity within each area creates visual monotony, makes finding one's way difficult, and does not allow residents to identify with a unique place in their neighborhood. In building a theme for the fort, therefore, it is important to try to link these isolated areas to the main part of the fort, while introducing diversity and individuality to each neighborhood.

function well internally and exhibit off-base personnel. In most of the difficult to provide an environment primary work areas for both on and distinguish living areas from work barracks areas it is difficult to their roles as they relate to the attention to the use of space for these areas serve a dual purpose: variety of purposes is needed to social uses, administration, and command headquarters all tend to improve the functioning of these ideal for both work and living, Important buildings for problematic in some cases where he attraction areas or primary enlisted men; and (2) they are forkplaces on the fort should (1) they are living areas for look alike. Although it is rest of the base. This is Areas. spaces.

14.

The Community Facility serves more people and provides more services than any other area on the fort. This facility is regarded as a center because of its use. However, the visual qualities and difficult circulation problems weaken it in this role.

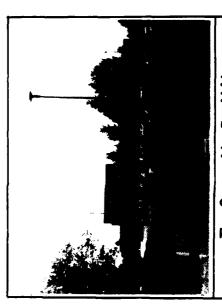
Cars and large parking lots
dominate; and pedestrian movement is
constricted with few walking
amenities. Present pedestrian
sidewalks and crossings compete
unsuccessfully with auto circulation

routes. The spacing and size of buildings is irregular and make the area difficult to understand and use.

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As new projects are built in the Community Facility there will be an opportunity to improve the circulation and placement of buildings. With care, the importance of the facility can be expressed in its appearance.

In the isolated areas diversity should be introduced. In activity areas and the Community Facility, the environment should delineate territory for a variety of functions and communicate the relative importance of each area to the fort as a whole. In the transition areas, the circulation routes and infil development should provide a unifying link to strengthen the fort's identity.



The Community Facility

PHYSICAL SETTING: NATURAL FEATURES

The natural features of the fort are used for several different purposes. Originally, the natural features were used to provide the fort with dramatic views and a spectacular

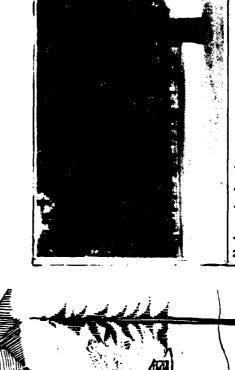
setting within a forested area. As the fort expanded, forest areas were removed and open spaces were left to separate and buffer new developments from the existing built areas. A distinct pattern has left the fort with it's current checkerboard development pattern.

Problem and Opportunities for Design

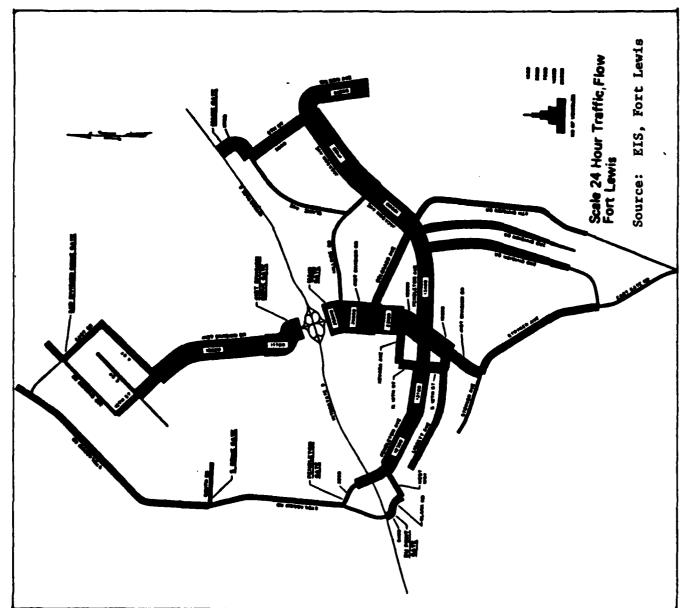
A few problems and several opportunities arise from focusing on the natural features. The location of future developments may be

imited by marshes, hills, and needed training reas. This may be blessing in that it will force the fort to fill in between existing development.

The natural features and vegetation, from installations in other areas of potential for being linking elements rather than connect the built areas. natural areas in such a way to help the natural areas tend to separate Pacific Northwest and distinguish link together built areas so that Some of the fort is perceived as a whole identify the fort as part of the natural areas of the fort have a But it is possible to treat the such as forests and grasslands, the country. In addition, the rather than a place with many between the built areas. Individual parts.



Natural features can be used to create a pleasant setting and regional image for the Fort.



PHYSICAL SETTING: CIRCULATION

The Preliminary Report pointed out that there is an undue reliance on the auto for moving about on the fort. Traffic volume on Fort Lewis shows a heavy concentration on two main streets, 41st Division Drive (the north/south route) and Pendleton and Jackson Avenue (the east/west route). The majority of people who work and live at the fort develop their image of the base from the streets they travel on. The fort circulation system is made of four different types of streets:

The arterial streets are major traffic routes on the fort which provide direct routes to and from the work areas. These streets have heavy traffic volumes and high levels of noise.

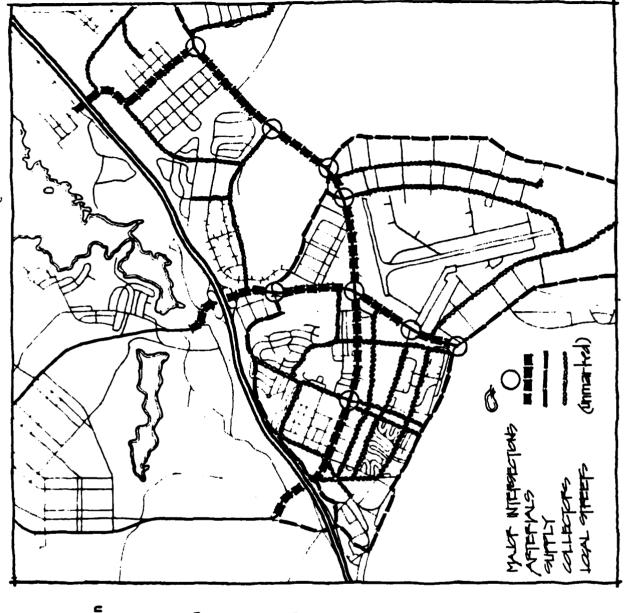
The <u>factical vehicle roads</u> are used by the military to move factical equipment from the troop areas to field training areas. The circulation routes for these vehicles are designed to be separate from the street system, but some overlap.

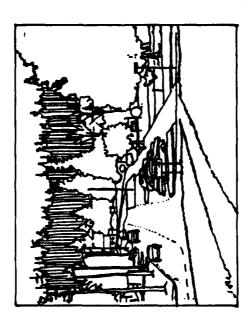
The collector streats provide connections to the arterials from the housing areas. They generally have high traffic volumes and high noise levels during peak periods of the day. The points where they join the arterials create the major intersections on the fort.

The <u>local streets</u> have slower and lighter traffic volumes. The streets are narrow and serve only a small area.

small area.

The circulation system on the fort creates a sequence of views and images as the viewer passes through the different built and unbuilt areas. Entries and intersections break up the sequence of events along the streets providing orienting clues to the traveller.





Problem and Opportunities for Design

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fort's design lie in its circulation important streets. Major entries on lew developments should consider the system and the "sequences of events" designed to look more like points of Streets can be designed and treated ayout of the original Garrison and egibility and identity of the fort ort and within it can improve the any strong natural features of the site plans should try to bring out The use of views was an s still an effective tool today. andmarks that will remain as the perival. Enhancing views to the natural elements. Buildings and relationship of buildings to key to establish a visual hierarchy. Opportunities for improving the mportant consideration in the that occur along the roadways. designed to look like the most tost important streets can be the fort one be specifically place and relate to existing ort grows and changes. or all.

The role of edges as design elements should also be used more often to help determine the layout of new buildings or the location of a new street. By paying attention to the edges the planners and designers can help define the sense of structure and organization exhibited by the fort. Some edges should be made very evident and strong while others need to be blurred and softened.

Presently the fort is expanding. As it grows, the circulation system and parking areas will also expand. It need not occur in a negative way. Infill is beginning to occur along the main routes. The importance of visual sequences and views from the road should be considered as these plans are carried out.



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Special Thanks
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